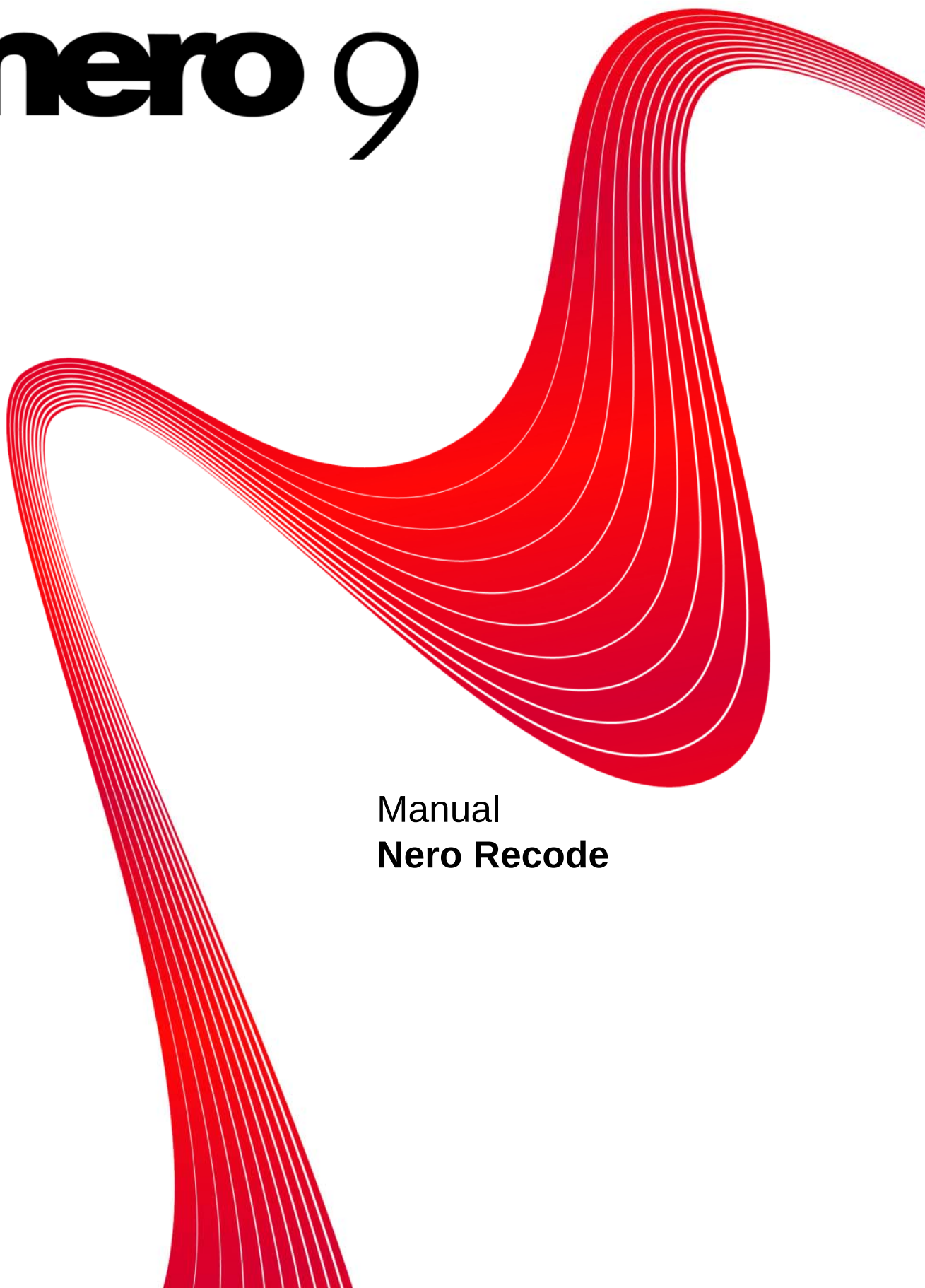


nero 9



Manual
Nero Recode

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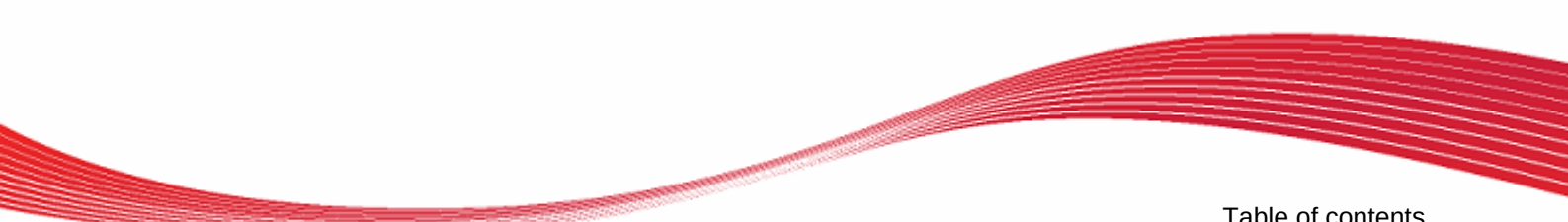


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1 Start Successfully

1.1 About the manual

This manual is intended for all users who want to learn how to use Nero Recode. It is process-based and explains how to achieve a specific objective on a step-by-step basis.

In order to make best use of this documentation, please note the following conventions:

	Indicates warnings, preconditions or instructions that have to be precisely followed.
	Indicates additional information or advice.
1. Start ...	A number at the beginning of a line indicates a request for action. Carry out these actions in the order specified.
	Indicates an intermediate result.
	Indicates a result.
OK	Indicates text passages or buttons that appear in the program interface. They are displayed in bold print.
(see...)	Indicates references to other chapters. They are executed as links and are shown in red and underlined.
[...]	Indicates key combinations for entering commands.

1.2 About This Application

Nero Recode allows you to copy non-copy-protected DVD videos to DVD, which is a method of archiving your content. If the source video is larger than 4.7 GB, it is compressed to fit on a single-layer DVD without loss of quality.

You can also exclude unwanted material on the source DVD from the copying process (including subtitles or soundtracks) thereby making space for additional videos or for better video quality. The target DVD can also be written to the hard drive as a DVD video index or as a so-called disc image.

Of course, you can also compile content from different (non-copy protected) DVDs, export them to the innovative Nero Digital MPEG-4/H.264 AVC format and burn them to create your own collection.

No matter whether the video is intended for playing on mobile devices or HDTV, the various export profiles allow you to adjust the output format to your requirements - and you always get the best quality for your respective file size thanks to the various export profiles.

Thus, Nero Recode lets you copy, recompile, and recode the content of DVs and DVDs and then to burn the results to disc.

1.3 Working with Nero Recode

Basically, choose the task you wish from the selection in the Nero Recode main window. This manual contains a chapter for each task that describes all of the steps required for its completion.

To complete the task, you simply navigate through the different steps (a new screen is displayed for each step). For each screen, the manual contains a chapter in which all areas are described in detail.

All the tasks that you can carry out with Nero Recode are basically divided into four steps:

- Selecting the required task
- Importing the files you want to recode
- Setting the options for Nero Digital and for the burn process
- Recoding and Burning the disc

Use the **Next** and **Back** buttons to move back and forth through the three screens while performing a task. This means that you can also change settings that you have already made and undo actions.



Each screen contains tool tips, detailed information and explanations for the buttons, icons and menus. Move the mouse pointer over a control element for a few seconds to see the tooltip.

You should know the following definitions in Nero Recode:

Encode	Means the conversion of a video of any format into another format, e.g. <u>MPEG-2</u> or Nero Digital (<u>MPEG-4</u>). A corresponding encoder is required for each target format.
Transcoding	Means the conversion of a video from one particular format into another, e.g. from Xvid to MPEG-2. In this manual transcoding is used synonymously with encoding.
Recoding	Means the conversion of an existing video with certain properties (e.g. <u>bit rate</u> 2500 kbps) into the same format with different properties (e.g. <u>bit rate</u> 1990 kbps).
Decoding	Means opening or playing a video that has been encoded in a particular format.



The best way to create a simple 1:1 copy of a DVD is by using Nero Express or Nero Burning ROM. There is no compression whatsoever in this case. The recordable disc used must have as much free disk space as is shown for the content of the original DVD. You can find detailed instructions on how to work with the application in the separate Nero Express and Nero Burning ROM user manuals.



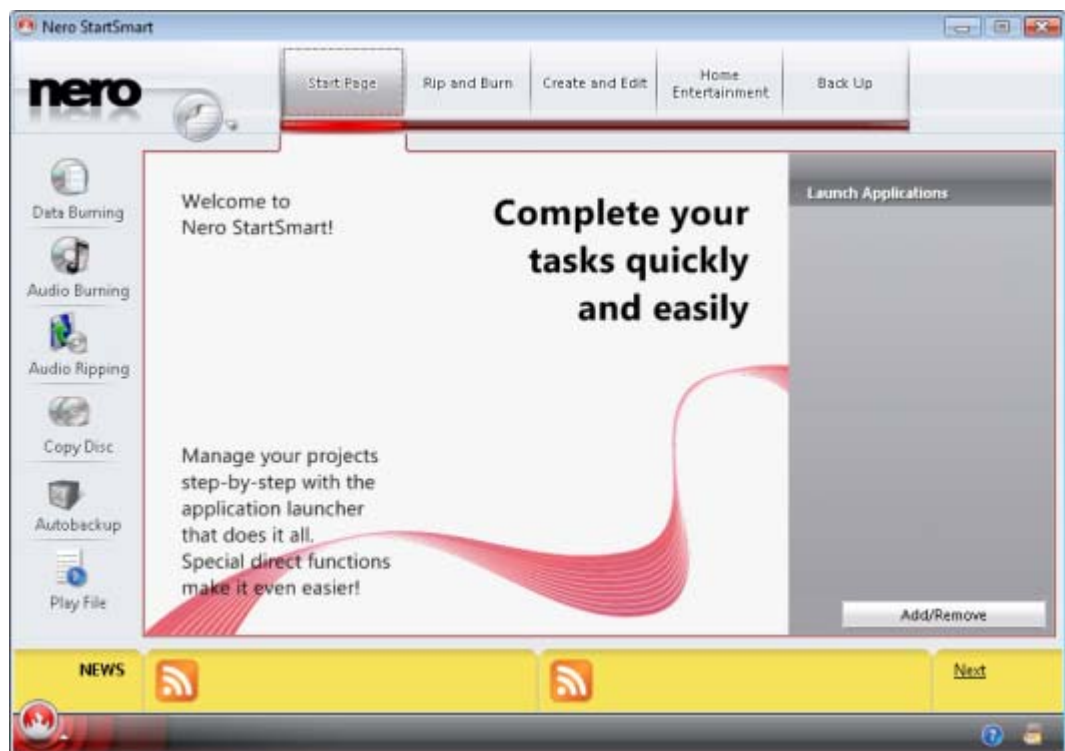
Copyright

Unless you possess the copyright yourself, or at least have the permission of the copyright holder, the unauthorized reproduction of discs may be a breach of national or international law and may lead to severe penalties!

2 Launching the program

To start Nero Recode via Nero StartSmart, proceed as follows:

1. Click the **StartSmart** icon.
→ The Nero StartSmart window opens.
2. Click the  button.
→ The list of Nero applications appears.



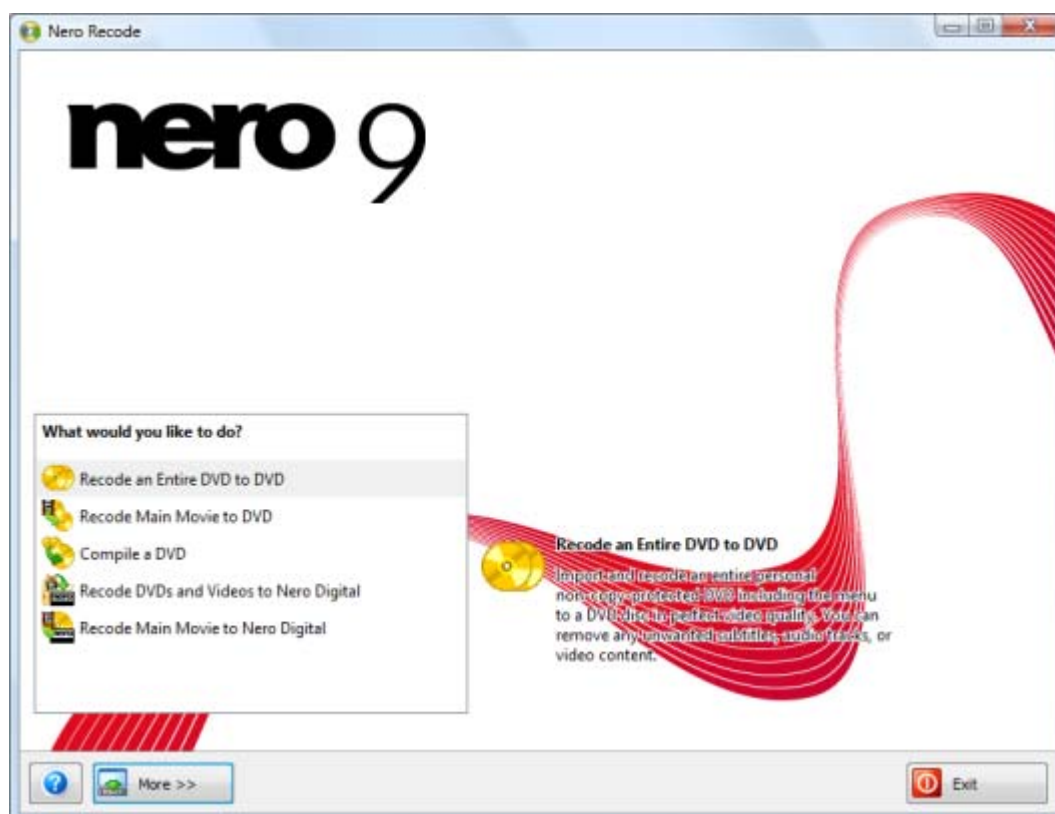
Nero StartSmart window

3. Select the Nero Recode entry in the selection list.
4. The Nero Recode window opens.
→ You have launched Nero Recode via Nero StartSmart.

3 User interface

3.1 Main window

The user interface for Nero Recode consists of a main window and an expandable area. After selecting a task in the **Nero Recode** screen, complete the task by navigating through the various steps with a new screen displayed for each.



Main window

The following selection options are available in the **Nero Recode** main window:

Recoding an entire DVD to DVD	Imports DVDs including their menus and extras. Unwanted audio tracks, subtitles or video content can be removed and the structure of the video titles can be changed.
Recoding a main movie to DVD	Imports the main movie on a DVD without menus and extras. Unwanted audio tracks, subtitles or video content can be removed and the structure of the video titles can be changed.

Compiling a DVD	Imports video titles and compiles an individual DVD from one or more DVDs. Unwanted audio tracks, subtitles or video content can be removed and the structure of the video titles can be changed.
Recoding DVDs and videos to Nero Digital	Imports video titles from one or more DVDs and converts them to Nero Digital (MPEG-4) files. Unwanted audio tracks, subtitles or video content can be removed and the structure of the video titles can be changed.
Recoding the main movie to Nero Digital	Imports the main movie from a DVD without menus and extras and converts it to Nero Digital (MPEG-4) files. Unwanted audio tracks, subtitles or video content can be removed and the structure of the video titles can be changed.

The following buttons are available:

More	Opens and closes the extended area in which the basic Nero Recode settings can be made.
?	Displays the online help as well as the version and manufacturer information.
Exit	Closes Nero Recode.



Each screen contains tool tips, detailed information and explanations for the buttons, icons and menus. Move the mouse pointer over a control element for a few seconds to see the tooltip.

See also:

 [Extended area - Main window→ 10](#)

3.1.1 Extended area - Main window

The Nero Recode user interface consists of a main window and an extended area. Clicking the **More** button opens the expanded area.

The following buttons are available in the extended area:

Options	Calls up a window containing various tabs that allow you set the way the program operates.
Erasing a Disc	Erases a rewritable disc.
Disc Info	Calls up information about the disc in the drive.

Nero CoverDesigner	Launches Nero CoverDesigner in a new window. Nero CoverDesigner is an application in the Nero 8 Suite and is automatically installed during the main installation procedure. Nero CoverDesigner allows you to create and print labels and booklets for burned DVDs and CDs. Please see the separate Nero CoverDesigner user manual for full instructions on how to make professional looking covers and labels.
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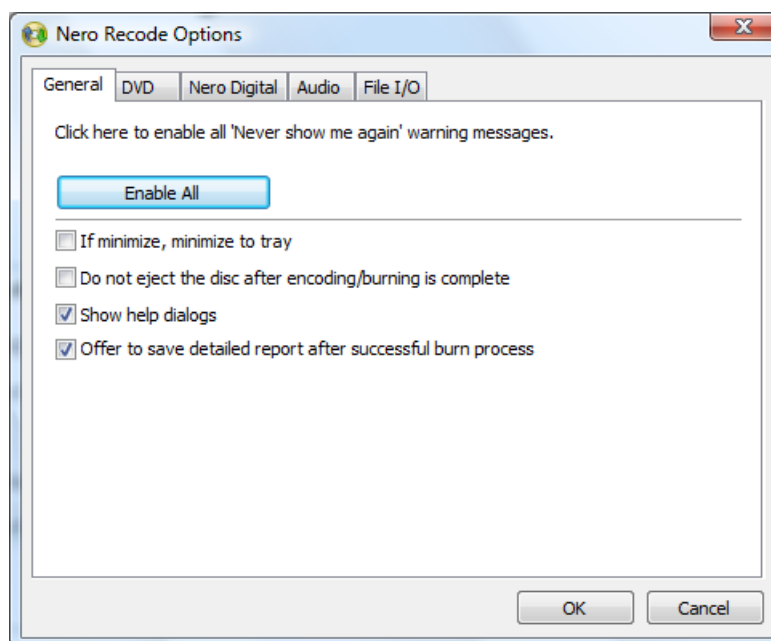
Each screen contains tool tips, detailed information and explanations for the buttons, icons and menus. Move the mouse pointer over a control element for a few seconds to see the tooltip.

See also:

-  [Main window→ 9](#)
-  [Basic settings→ 11](#)

3.2 Basic settings

The **Nero Recode Options** window has the **General**, **DVD**, **Nero Digital**, **Audio**, and **File I/O** tabs available. You can customize Nero Recode according to your preferences in this window. To open the window, click the **Options** button in the extended area.



Nero Recode Options window

See also:

-  [General tab→ 12](#)
-  [DVD tab→ 12](#)
-  [Nero Digital tab→ 13](#)
-  [Audio tab→ 14](#)
-  [File I/O tab→ 15](#)
-  [Extended area - Main window→ 10](#)

3.2.1 General tab

On the **General** tab, you can define general Nero Recode settings.

The following setting options are available:

Button Enable All	This enables all warnings if these have been disabled manually.
Check box If minimize, minimize to tray	If this check box is enabled, the program is minimized to the status bar when minimized.
Check box Do not eject the disc after encoding/burning	If this check box is enabled, the disc is not ejected after the burn process.
Check box Show help dialogs	If this check box is enabled, brief explanation texts appear when you move the cursor over individual items of the Nero Recode interface.
Check box Offer to save detailed report after successful burn process	If this check box is enabled, Nero Recode offers the option, after each burn process, of saving a report that was created during the burn process.

See also:

-  [Basic settings→ 11](#)

3.2.2 DVD tab

The **DVD** tab is divided into the **Import DVD** and **Output DVD** areas. You can define the settings for DVD importing and outputting in this tab.

The following check boxes are available on the **Import DVD** area:

Prompt to include DVD data files when importing	If this check box is enabled, content is transferred, i.e. copied as well, when a DVD with data content is imported.
--	--

Relax DVD-Video specification to allow 16-bit Unicode for the volume label	If this check box is enabled, limitations on the use of character sets are relaxed. Nero Recode does not use characters from languages like Japanese or Korean, which have a 16-bit Unicode character set that does not comply with DVD-Video requirements.
---	---

The following check boxes are available on the **Output DVD** area:

Remove P-UOPs (Prohibited User Operations) from target disc	If this check box is enabled, the locked areas of a DVD are made accessible to the user when the DVD is copied. For example, if the original DVD contains an area that cannot be skipped, you can use Nero Recode to remove the block so that users can skip or fast forward through the area.
Remove Layer Break	If this check box is enabled, Nero Recode removes the layer break. If the original DVD consists of two layers, there is a command on the DVD to freeze the image briefly to allow the laser to switch from the first layer to the second. When Nero Recode is used to copy to a DVD with just one layer, this command is redundant and can be removed.

See also:

 [Basic settings→ 11](#)

3.2.3 Nero Digital tab

The **Nero Digital** tab is divided into the **Import preferences** and **Various settings** areas. You can define the settings for conversion into the Nero Digital™ format here.

The following configuration options are available in the **Import preferences** area:

Check box Analyze files while importing	If this check box is enabled, Nero Recode performs an analysis of the video file during the importing process.
Check box Keep interlaced content if possible	If this check box is enabled, Nero Recode keeps the <u>interlaced</u> content of a video file, provided that this is possible.

Check box Keep input resolution for interlaced encodings	If this check box is enabled, Nero Recode keeps the input resolution of the video file if encoding should be carried out with the interlaced feature. The resolution is not changed and picture edges are not trimmed.
Check box Prefer motion adaptive deinterlacing method	If this check box is enabled, Nero Recode selects the motion-adaptive deinterlacing method as the preferred encoding method. Even quick motion sequences are extremely sharp and detailed. However, burning is slower.
Drop-down menu Default resizing method:	Selects the method for changing video resolution. <u>Bilinear interpolation</u> is selected by default.

The following check boxes are available in the **Various settings** area:

Enable classic set of Nero Digital profiles	Activates the classical set of Nero Digital Profiles, available in the screens My Nero Digital Disc and My Nero Digital Film Backup in the drop-down menu Nero Digital Profiles . If the check box is disabled, Nero Digital AVC and Nero Digital Standard are offered.
Auto-close iTunes after iPod transfer	If this check box is enabled, iTunes is automatically closed after transcoding into Apple iPod video.
Never write extra track to allow low-memory device playback	If this check box is enabled, the creation of a special extra track is prevented. Certified players with low RAM can play long movies.

See also:

 [Basic settings→ 11](#)

3.2.4 Audio tab

The **Audio** tab is divided into the **Preview** and **Decoding** areas. You can define audio quality settings in this tab.

The **Preview** area features a drop-down menu. You can use this menu to choose the preview mode for audio that is best suited to your hardware and to your speakers.

The **Decoding** area features the **Use dynamic range compression for decoding Dolby Digital tracks** check box. If this check box is enabled, the level control for Dolby® Digital tracks is adjusted in order to reduce hissing and static noise.

See also:

 [Basic settings→ 11](#)

3.2.5 File I/O tab

On the **File I/O** tab you can define the method for accessing a drive for direct conversion.

You can choose the **SPTI/ASPI** or **Windows File System** entries from the drop-down menu.



When read with **SPTI/ASPI**, non-copy-protected DVD's that feature a copyright bit will display a message stating that the DVD cannot be copied due to copy protection. In this case, you should choose the **Windows File System** option when reading.

See also:

 [Basic settings→ 11](#)

3.3 Import screen

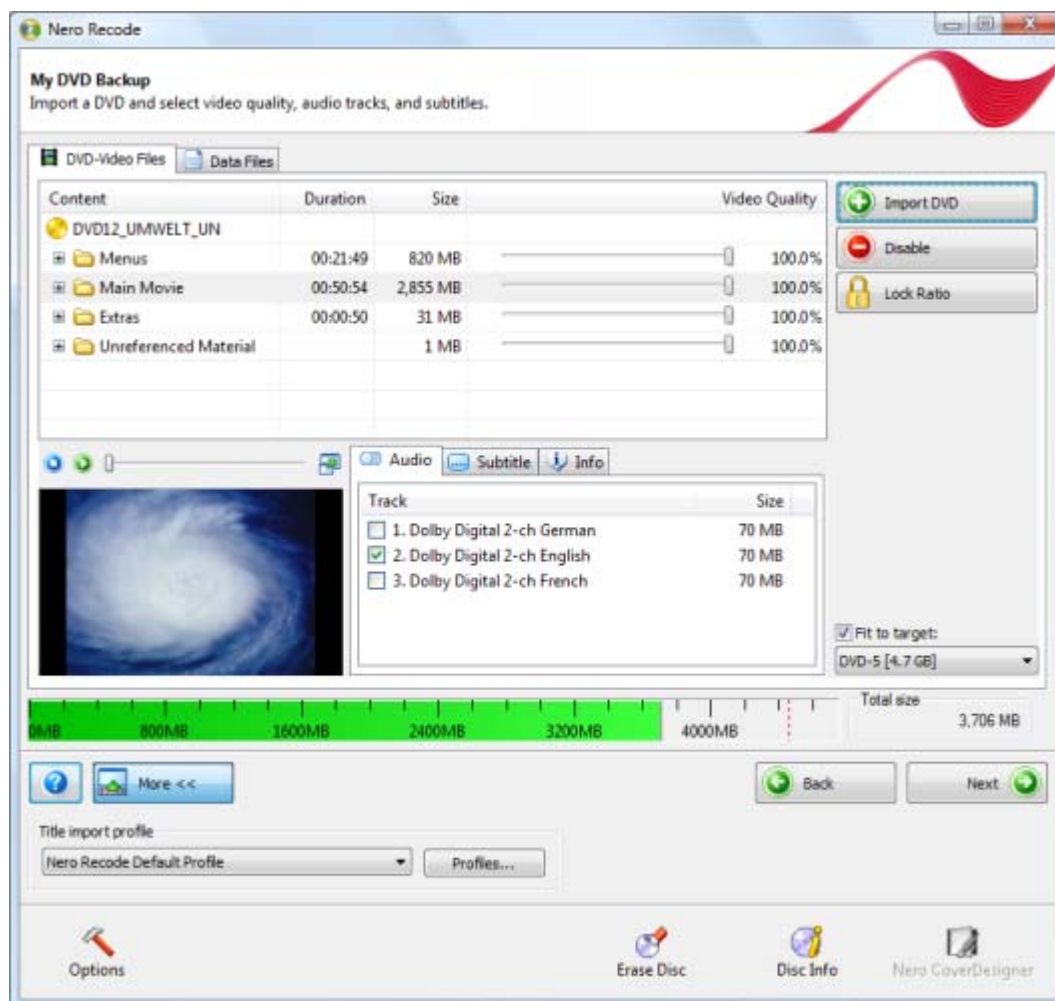
In the screen for importing files, you can add your DVD video title, add data files, adjust the required video quality for the title, and transfer or remove audio tracks and subtitles from the selection of the original DVD.



The screen varies depending on the selected task. Following is an explanation of the setting options that are always shown on this screen. You can find the explanation for the setting options that are displayed depending on the selected tasks in the description for the individual tasks.

The screen is divided into the **DVD-Video Files/Nero Digital Titles** and **Data Files** tabs. A **capacity bar** below shows how much space is occupied on the disc graphically. As long as the bar is green, all the content fit on the disc. If a red bar is shown on the display, the data volume is larger than the disc's capacity. The **Total size** area, located to the right of the capacity bar, is also used to indicate the space that is already occupied, in MB.

Clicking the **More** button opens the extended area. In this area, you can use the **Title import profile** area to create and save required quality settings in your own profile.



Import Files screen

See also:

- DVD-Video Files/Nero Digital Titles tab→ 16
- Data Files tab→ 18
- Title import profiles→ 19

3.3.1 DVD-Video Files/Nero Digital Titles tab

You can use the **DVD-Video Files** and **Nero Digital Titles** tabs to add your DVD tracks and video files.

Both tabs are divided into a content area, a preview area beneath it to the left, and the **Audio/Subtitle/Info** tabs, which show the audio tracks and subtitles on the original DVD, to the right.



The screen varies depending on the selected task. Following is an explanation of the setting options that are always shown on this screen. You can find the explanation for the setting options that are displayed depending on the selected tasks in the description for the individual tasks.

The following setting options are available:

Button Import DVD / Import Titles	Opens a window to import the required DVD and/or video title.
Check box Fit to target	If this check box is enabled, the content of the imported disc is re-coded automatically in such a way that it can fit on the inserted recordable disc. The check box is enabled by default. If the box is not checked, the size of the copy can be defined irrespective of the limitation of a disc. Although it may not be possible to burn the resulting DVD structure onto a typical commercial blank disc, the DVD-Video title could certainly be played from the hard drive.
Drop-down menu Fit to target	This shows the target medium. This drop-down menu is active when the Fit to target box is checked.

The imported video titles are shown on the content area. The following information on the individual titles is available:

Column Content	Shows the structure transferred from the DVD.
Column Duration	Shows the duration of the respective area, folder, or video title.
Column Size	Shows the memory size of the respective area, folder, or video title. Feature limitation.
Column Video quality	Shows the quality (in percentage) in which Nero Recode can recode the area, folder, or video title. If the content of the imported disc must be recoded in such a way as to fit it on a smaller target recordable disc, the quality of all video titles is adjusted uniformly.

You can play a preview of the imported video title in the preview area. The following setting options are available:

Button 	Ends playback.
---	----------------

Button 	Starts playback.
Slider 	Skips to particular points.
Button 	Enlarges/reduces the preview area.

The **Audio/Subtitle/Info** tabs show the audio tracks and subtitles on the original DVD. You can select any desired video title in the content area in order to see the corresponding audio and subtitle tracks. These are imported according to the profile chosen during the import process. The following tabs are available:

Audio	Displays the audio tracks imported in line with the import profile.
Subtitles	Displays the audio tracks imported in line with the import profile.
Info	Displays information about the imported video title.

See also:

 [Import screen](#) → 15

3.3.2 Data Files tab

Data files can be burned onto the disc as well as the film. These files are imported using the **Data Files** tab.



The screen varies depending on the selected task. Following is an explanation of the setting options that are always shown on this screen. You can find the explanation for the setting options that are displayed depending on the selected tasks in the description for the individual tasks.

The following buttons are available:

Add Files	Opens a window for adding the desired data files.
Erase	Removes a selected data file. This is enabled only if at least one data file has been added.
	Returns to the next higher level in the folder structure. This is only active when the user is located in a subfolder.
	Opens a window for creating a new folder inside the disc's data area.
	Opens a menu for changing the way/view in which the files appear in the folders.

See also:

 [Import screen](#) → 15

3.3.3 Title import profiles

You can select the desired profile for importing a DVD or create and manage your own import profile in the **Title import profile** area.

Clicking the **Profiles..** button opens the **Nero Recode profile** window. You can make adjustments in the **Video**, **Audio**, and **Subtitle** tabs.

The following buttons are available:

Drop-down menu Current Profile	Shows the current selected profile. If you create your own import profiles, these are listed in the drop-down menu as entries.
Button New	Calls up a window where a new profile can be created.
Button Erase	Deletes the current profile displayed in the Current Profile drop-down menu.

The following settings are available on the **Video** tab:

Quality distribution	Defines the quality ratio between the main movie and the extras.
Menus	Indicates whether the menus contained in the video file can be copied in original quality.

The following setting options are available on the **Audio** tab:

Check box Preselect the following audio tracks	If this check box is enabled, only audio tracks in the specified languages are imported when the DVD is imported.
Button Add	Opens a window in which the desired languages for importing audio tracks can be selected. This button is enabled only if the Preselect the following audio tracks box has been checked.
Button Remove	Removes languages from the list box. This button is only enabled if the Preselect the following audio tracks check box is enabled and at least one language has been selected for removal from the list box.
Drop-down menu From multiple tracks of the same language select	Specifies the audio format used if there are several audio tracks in the same language on the DVD.

Check box Select all tracks if none meets my selection criteria	If this check box is enabled and none of the audio tracks on the corresponding DVD meet the defined criteria, all audio tracks are imported as an alternative.
---	--

The following setting options are available on the **subtitles** tab:

Check box Preselect the following subtitle tracks	If this check box is enabled, only subtitles in the specified languages are imported when a DVD is imported.
Button Add	Opens a window in which the desired languages for importing subtitles can be selected. This button is only enabled if the Preselect the following subtitle tracks check box is enabled.
Button Remove	Removes languages from the list box. This button is only enabled if the Preselect the following subtitle tracks check box is enabled and at least one language has been selected in the list box for removal.
Check box Select all tracks if none meets my selection criteria	If this check box is enabled and none of the subtitles on the corresponding DVD meet the defined criteria, all subtitles are imported as an alternative.

See also:

 [Import screen](#) → 15

3.4 Screen Burn Settings

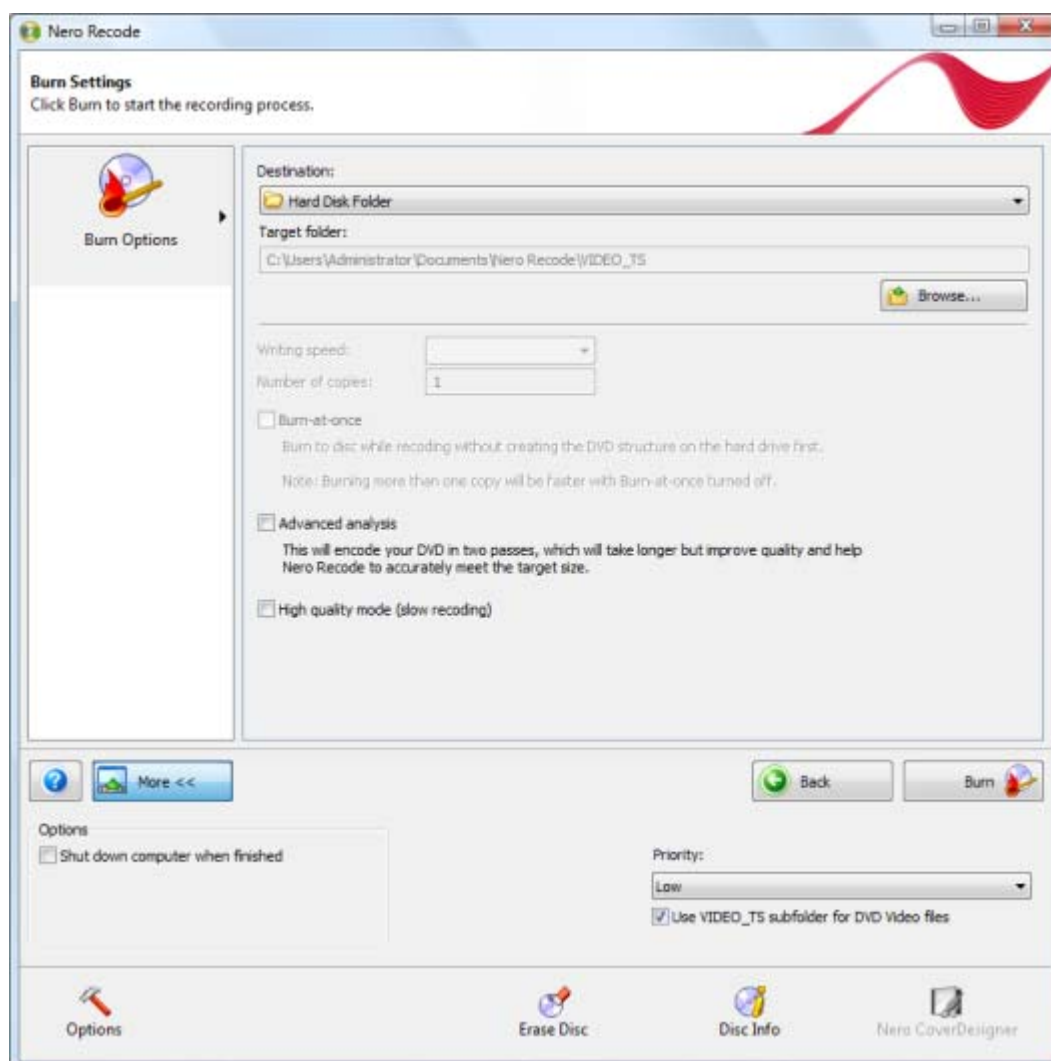
You can define the desired options for recoding and writing on the **Burn Options** screen.



The screen varies depending on the selected task. Following is an explanation of the setting options that are always shown on this screen. You can find the explanation for the setting options that are displayed depending on the selected tasks in the description for the individual tasks.

Clicking the **More** button opens the extended area. You can configure certain additional options inside this area, e.g. the burn process priority.

Once you have defined all the settings you want, click the **Burn** button on the bottom right to start the recording and burn process.



Screen Burn Settings

The following setting options are available in the top area of the screen:

Drop-down menu Target	This specifies the destination for the compilation. You can use a CD/DVD recorder to burn the data, store the data on a hard drive or generate an image file.
Input field Target folder	Specifies the target folder in which the compilation is stored and in which the temporary files created during burning are stored. The temporary files are automatically deleted after burning.

Button Browse	Opens a window showing the computer's directory tree. You can use this window to select the target folder where the compilation should be saved, or where the temporary files that are created during the burn process should be stored. The path is referenced automatically in the target folder input field. Temporary files are deleted after the burn process automatically.
-------------------------	--

The following setting options are available in the bottom area of the screen:

Drop-down menu Write speed	Specifies the writing speed. This drop-down menu is only enabled when a CD/DVD recorder is selected in the Target list box.
Input field Number of copies	Shows the number of copies to be burned. This drop-down menu is only enabled when a CD/DVD recorder is selected in the Target list box.
Check box Burn-at-once	If this check box is enabled, the DVD structure is not buffered on the hard drive before the burn process. If this check-box is enabled, the burn process takes longer. However, if you want to create several copies, this method is quicker, since the data only has to be recoded once. This drop-down menu is only enabled when a CD/DVD recorder is selected in the Target list box.
Check box Advanced analysis	Improves the quality of a DVD's encoding process considerably. Recoding takes place in two steps and therefore takes longer.
Check box High quality mode	Improves the quality of the recoding process. Recoding takes longer.

See also:

 [Extended area \(Burn Settings\)→ 22](#)

3.4.1 Extended area (Burn Settings)

The following setting options are available in the expanded area of the **Burn Settings** screen:

Check box Shut down computer when finished	If this check box is enabled, the computer is automatically shut down after the burn process.
--	---

Drop-down menu DVD Book Type settings:	Determines the specification of a DVD. Automatic: Automatically selects the most suitable book type for this DVD. DVD-ROM: Sets the book type to DVD-ROM. Select this setting if the DVD should play on multiple DVD players. Physical disc type: Selects the book type which is specified on the DVD. Current recorder settings: Lets the recorder choose the book type setting. This drop-down menu is enabled only if you have selected your computer's disc drive as a target.
Drop-down menu Priority	Defines how the resources available on the computer are used during the recoding and burn process.
Check box Use VIDEO_TS subfolder for DVD-Video files	Creates a subfolder VIDEO_TS in your target folder in which the DVD-Video files are saved.

See also:

 [Screen Burn Settings→ 20](#)

3.5 Recoding and Burning screen

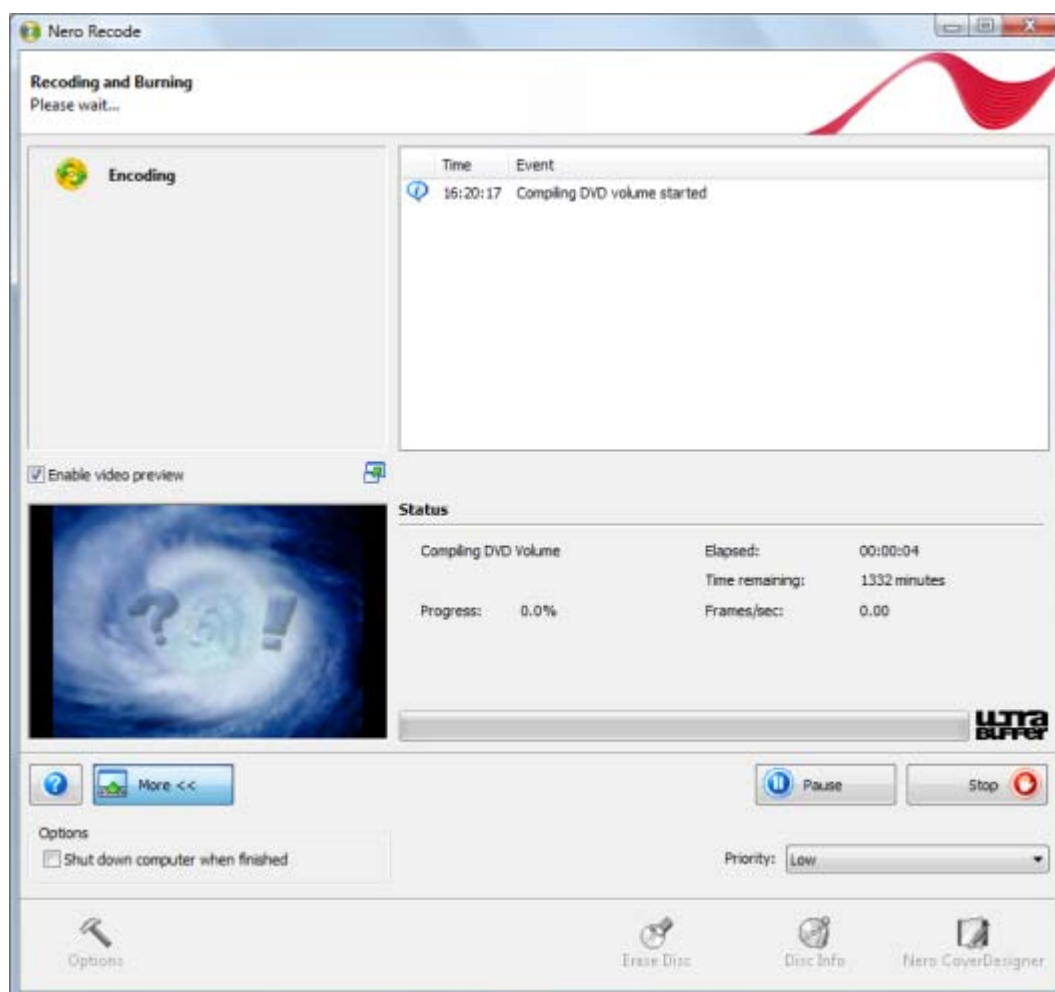
The recoding and burn process is carried out in the **Recoding and Burning** screen.



The screen varies depending on the selected task. Following is an explanation of the setting options that are always shown on this screen. You can find the explanation for the setting options that are displayed depending on the selected tasks in the description for the individual tasks.

You can find all the information necessary to track the individual steps of the recoding and burn process on the top area of the screen. Below, on the left, you can play a preview of the imported video title in the preview area. On the right, the **Status** area displays information regarding the progress of the recoding and burn process. Additionally, a **progress bar** shows the progress graphically.

Clicking the **More** button opens the extended area. You can configure certain additional options inside this area, e.g. the burn process priority.



Recoding and Burning screen

The following buttons are available in the **Recoding and Burning** window:

Button Pause	Interrupts the recoding and burn process.
Button Stop	Ends the recoding and burn process.
Button Resume	Resumes the recoding and burn process. This button is enabled only if the recoding and burn process was interrupted with the Pause button.
Button Back	Returns to the previous screen. This button is only active if the recoding and burn process has ended.

Button Next	Displays the What do you want to do now? screen. This button is only active if the recoding and burn process has ended.
-----------------------	---

The following setting options are available in the preview area:

Check box Enable video preview	If this check box is enabled, you can play the preview during the burn process.
Button 	Enlarges/reduces the preview area.
Link Show Nero Digital compatible devices	Opens a browser window containing a list of devices that can reproduce the Nero Digital profile during the encoding process. This option is enabled only if you recode files into the Nero Digital™ format. This function requires a fully functional Internet connection.

See also:

 [Extended Area - Recoding and Burning→ 25](#)

3.5.1 Extended Area - Recoding and Burning

The following setting options are available in the extended area of the **Recording and Burning** screen:

Check box Shut down computer when finished	If this check box is enabled, the computer is automatically shut down after the burn process.
Drop-down menu Priority	Defines how the resources available on the computer are used during the recoding and burn process.

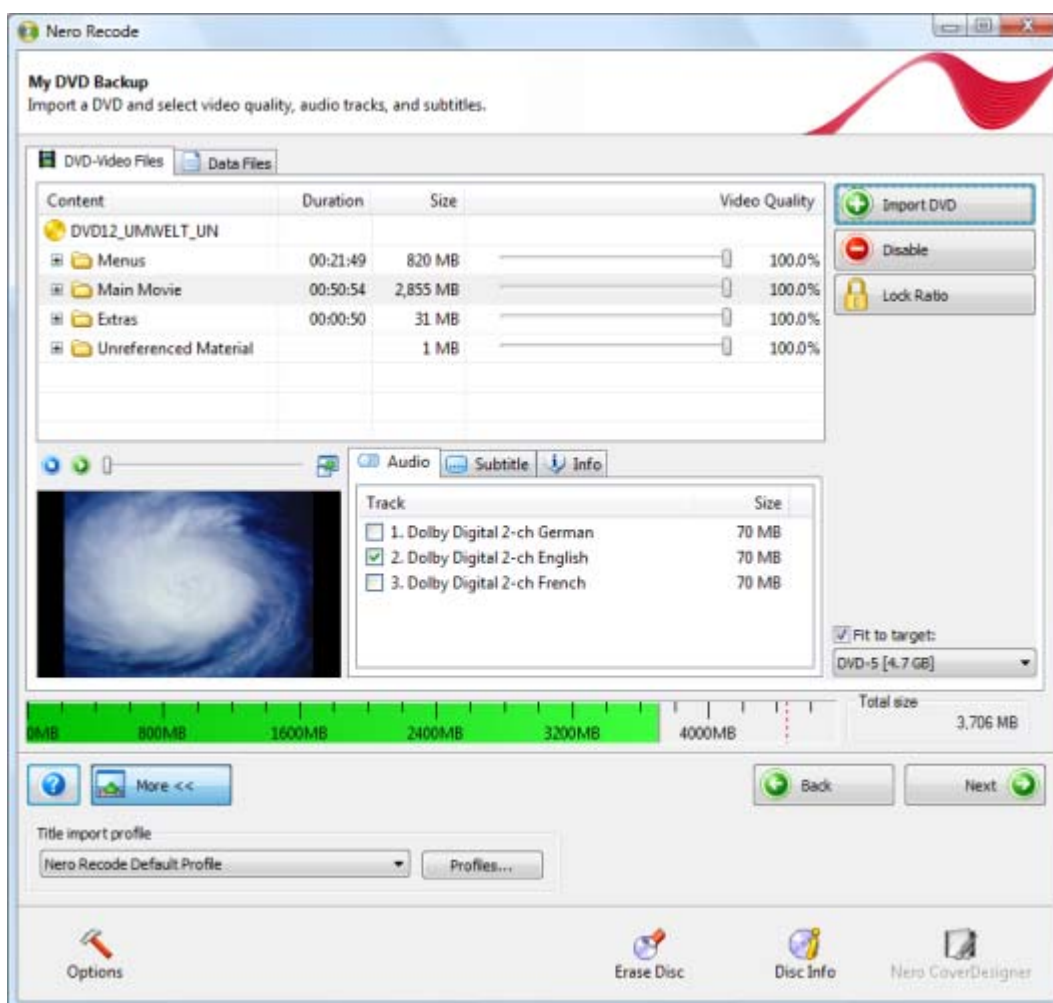
See also:

 [Recoding and Burning screen→ 23](#)

4 Recoding an Entire DVD

4.1 Setting Options for Recoding and Entire DVD

In addition to the basic settings that are always displayed on the screen for importing files, you can configure certain additional settings with the **Recode an Entire DVD to DVD** task.



Screen My DVD Backup

The following buttons are available:

Disable	Removes video titles on the original DVD from your compilation. This way, you can disable, e.g. unnecessary extras, and create more space on the target DVD. Disabled files are not transferred to the copy during the burn process. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.
Activate	Enables video titles that were previously disabled. The files that are added again are transferred to the target DVD when the compilation is written. This button is only enabled if at least one DVD video title has been disabled in the Content area and selected there.
Lock Ratio	Locks the automatic change of recoding quality for a DVD-Video title. It is still possible to make manual changes to the quality settings by moving the slider. It could be a good idea to lock individual video titles if you want to improve the quality of other content (and therefore, the quality of the remaining content is lowered proportionately). A locked title is protected from the proportional adjustment in this case. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.
Unlock Ratio	Unlocks automatic recoding quality changes for a video title. This button is only enabled if at least one DVD video title has been locked in the Content area and selected there.

See also:

-  [Recoding an entire DVD to DVD→ 27](#)
-  [Import screen→ 15](#)

4.2 Recoding an entire DVD to DVD

When copying a DVD, including the menu, you can use Nero Recode to adjust and modify the structure of a DVD in such a way that the data can be written to a conventional recordable disc with perfect video quality. You can remove undesired subtitles or audio tracks.



Copyright

Unless you possess the copyright yourself, or at least have the permission of the copyright holder, the unauthorized reproduction of discs may be a breach of national or international law and may lead to severe penalties!

To recode a DVD, proceed as follows:

1. Choose the **Recode an Entire DVD to DVD** task from the **Nero Recode** main window.

→ The **My DVD Backup** screen is displayed.

2. Insert the DVD you want to recode in the disc drive on your PC.



Keep in mind that the **Fit to target** check box is enabled so that the content of the source DVD can be recoded during the subsequent process in such a way that it fits the selected target format.

If the check box is disabled, the DVD-Video will be imported in its original size. In this case, it is possible that the data volume will be so large that you will only be able to store it on a double-layer DVD or on the hard drive.

3. If you created your own import profile and want to select it:
 1. Click the **More** button.

→ The extended area will open.
 2. Select the required import profile in the **Title import profile** area.
4. Click the **Import DVD** button.

→ The **Browse Folder** window is opened.
5. Select the drive or hard drive folder containing the DVD that you want to recode and click the **OK** button.

→ The DVD's individual video titles are imported and shown in the Content area. If the source DVD is larger than the target media, you can also use this area to see how the DVD is recoded according to the selected profile. Underneath, the capacity bar shows how much disk space is occupied by the imported files on the disc graphically.
6. If there is an individual video title you do not want to copy:
 1. Select the required video title.
 2. Click the **Disable** button.

→ The **Disable Item** window is opened.
 3. Select the desired deletion method from the drop-down menu and click the **OK** button.

→ The video title is disabled.
7. If you want to re-enable an disabled video title:
 1. Select the required video title.
 2. Click the **Enable** button.

→ The video title is re-enabled.
8. If you want to lock an individual video title to protect it from loss of quality during recoding:
 1. Select the required video title.
 2. Click the **Lock Ratio** button.

→ The video title is locked.
9. If you want to unlock a locked video title in order to adjust the quality proportionally to the quality of the other titles while recoding:
 1. Select the required video title.
 2. Click the **Unlock Ratio** button.

→ The video title is unlocked.



In order to adjust the quality of a desired video title individually, you can move the slider in the **Video Quality** column under the Content area. The quality of the remaining DVD content is lowered proportionally to the quality improvement of an individual piece of content.

The sliders in the **Video Quality** area are enabled only when the **Fit to target** check box is deactivated.

10. Enable the check boxes for the audio tracks that you want to copy on the **Audio** tab. Accordingly, disable the check boxes for the audio tracks that you don't want to copy.
11. Enable the check boxes for the subtitle tracks that you want to copy on the **Subtitle** tab. Accordingly, disable the check boxes for the subtitle tracks that you don't want to copy.
12. Click the **Next** button.
 - The **Burn Settings** screen appears.
13. Make the required settings for the burn process.
14. Click the **Burn** button.
 - The recoding and burn process is started and the **Recording and Burning** screen is displayed. You can track the process here.
15. If you have chosen the the disc drive of your computer as the target of the compilation, you will be prompted to insert an empty writable disc in the drive.
 - The burn process is complete when the relevant message appears in the information window.
 - You have recoded a DVD.
 - Clicking the **Next** button displays the **What do you want to do now?** screen. You can select further options here or exit Nero Recode.

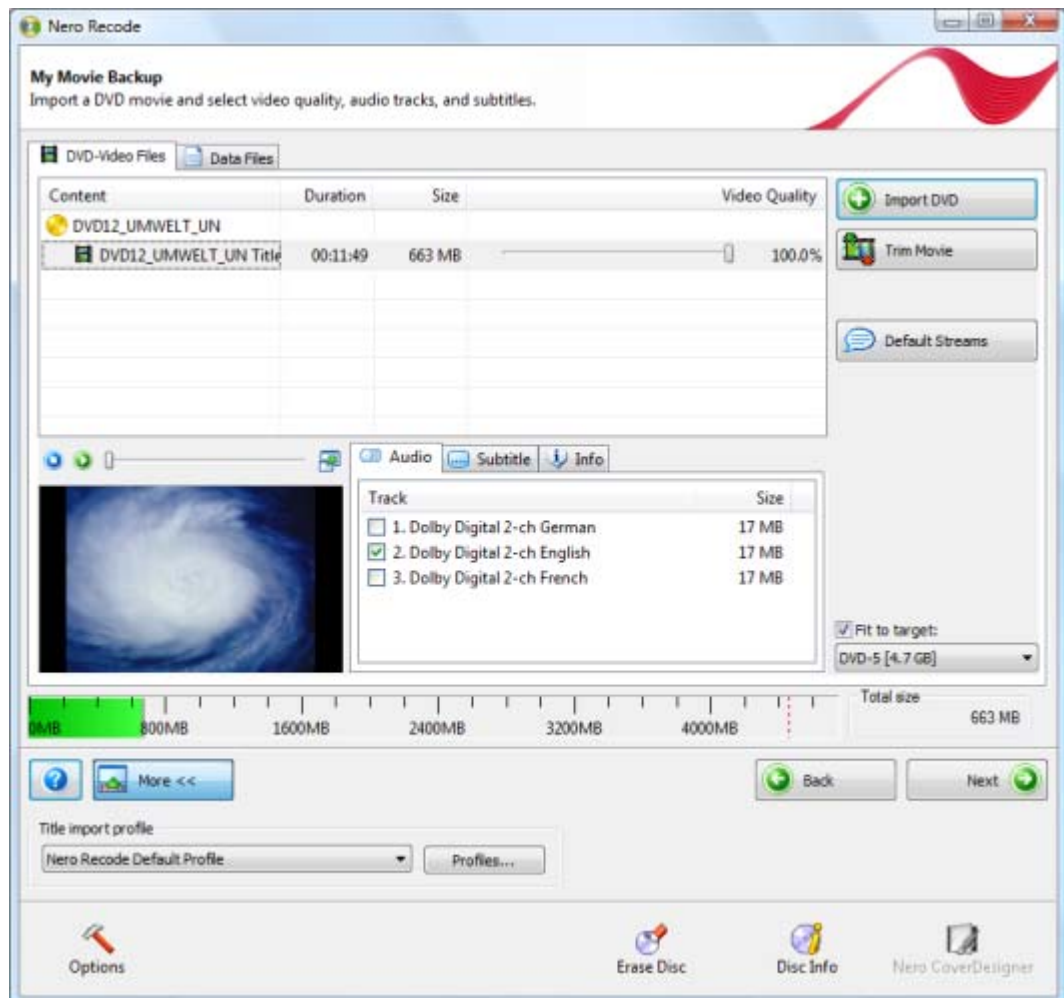
See also:

-  [Setting Options for Recoding and Entire DVD→ 26](#)
-  [Import screen→ 15](#)
-  [Screen Burn Settings→ 20](#)
-  [Recoding and Burning screen→ 23](#)

5 Recoding a main movie to DVD

5.1 Setting Options for Recoding a Main Movie to DVD

In addition to the basic settings that are always displayed on the screen for importing files, you can configure certain other settings with the **Recode Main Movie to DVD** task.



Screen My Movie Backup

The following buttons are available:

Trim Movie

Opens the **Trim Movie** window, where the selected video title can be trimmed.

This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.

Default Streams	Opens the window Default Streams in which the streams for audio and subtitles can be selected. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.
------------------------	--

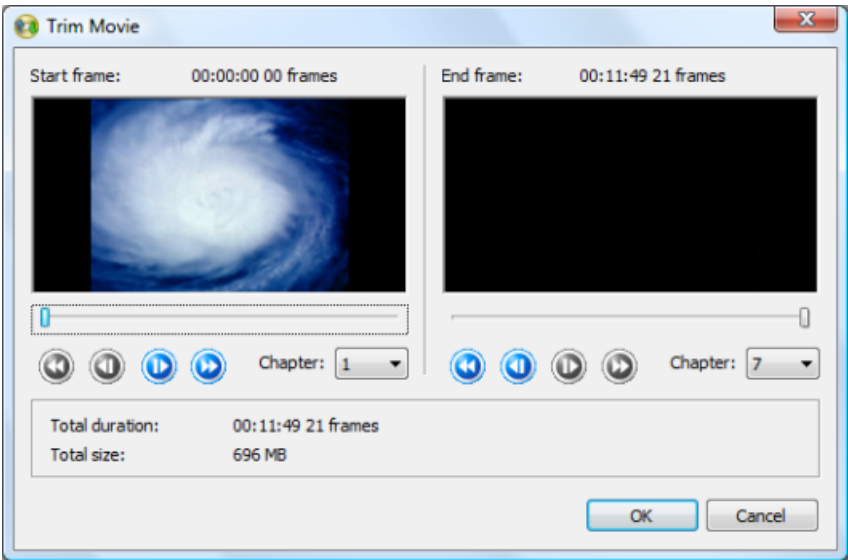
See also:

- Trim Movie window→ 31
- Default Streams window→ 33
- Recoding a main movie to DVD→ 34
- Import screen→ 15

5.2 Trim Movie window

You can use the **Trim Movie** window to trim a video title that you do not want to use in its entirety down to a special section.

The window is divided into two areas. The left side - the area for the first frame - is used to select the frame with which the video title should start. The right side - the area for the last frame - is used to define the frame with which the video title should end.



Trim Movie window

The following setting options are available:

Button 	Skips forwards a few frames.
Button 	Skips forwards 6 seconds.

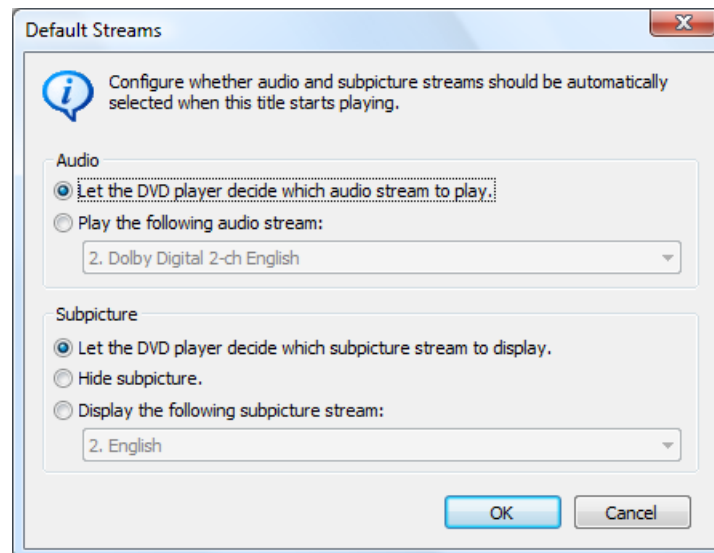
Button 	Skips 6 seconds back.
Button 	Skips a few frames back.
Slider 	Manually regulates determination of the desired frames.
Drop-down menu 	Selects the chapter markers of the video title directly. It is only possible if the video title contains chapter markers.
Display Start Frame	Indicates the start frame of the video title.
Display End frame	Indicates the end frame of the video title.
Display Total duration	Indicates the length of the video title.
Display Total size	Indicates the overall size of the video title.

See also:

-  [Setting Options for Recoding a Main Movie to DVD→ 30](#)
-  [Setting Options for Compiling a DVD→ 36](#)
-  [Setting Options for Recoding a DVD to Nero Digital→ 41](#)
-  [Setting Options for Recoding a Main Movie to Nero Digital→ 60](#)

5.3 Default Streams window

In the **Default Streams** window you can define the settings for audio and subtitle streams.



Default Streams window

The following option buttons are available in the **Audio** area:

Let the DVD player decide which audio stream to play	Allows the DVD player to choose which audio stream to play. Selection occurs automatically when title playback starts.
Play the following audio stream	Selects the audio stream to be played when a title is played back, e.g. in a DVD player.

The following option buttons are available in the **Subtitles** area:

Let the DVD player decide which subtitle stream to display	Lets the DVD player decided which subtitle stream will be played. The selection is made automatically when the title playback starts.
Hide subtitles	Hides the subtitles. No subtitles are shown during title playback, e.g. in a DVD player.
Display the following subtitles stream	Selects the subtitles stream to be played when a title is played back, e.g. in a DVD player.

See also:

- [Setting Options for Recoding a Main Movie to DVD→ 30](#)
- [Setting Options for Compiling a DVD→ 36](#)

5.4 Recoding a main movie to DVD

You can use Nero Recode to copy the main movie of a DVD without additional extras. You have the option of customizing and modifying the main movie's structure so that the data can be written to a conventional recordable disc with perfect video quality.



Copyright

Unless you possess the copyright yourself, or at least have the permission of the copyright holder, the unauthorized reproduction of discs may be a breach of national or international law and may lead to severe penalties!

In order to recode the main movie of a DVD, proceed as follows:

1. Select the **Recode Main Movie to DVD** task in the **Nero Recode** start screen.
→ The **My Movie Backup** screen is displayed.
 2. Insert the DVD you want to recode in the disc drive on your PC.
- 

Keep in mind that the **Fit to target** check box is enabled so that the content of the source DVD can be recoded during the subsequent process in such a way that it fits the selected target format.

If the check box is disabled, the DVD-Video will be imported in its original size. In this case, it is possible that the data volume will be so large that you will only be able to store it on a double-layer DVD or on the hard drive.
3. Select the required import profile in the **Title import profile** area.
 4. Click the **Import DVD** button.
→ The **Browse Folder** window is opened.
 5. Select the drive or hard drive folder containing the DVD that you want to recode and click the **OK** button.
→ The main movie of the DVD is imported and shown in the Content area. If the source DVD is larger than the target media, you can also see how the DVD is recoded according to the chosen profile here.
Underneath, the capacity bar shows how much disk space is occupied by the imported files on the disc graphically.
 6. If you want to trim an individual video title:
 1. Select the required video title.
 2. Click the **Trim Movie** button.
→ The **Trim Movie** window opens.
 3. Choose the first and last frames and click the **OK** button.
→ The video title is trimmed.
 7. If you wish to configure the default streams:
 1. Select the required video title.
 2. Click the **Default streams** button.

- The **Default streams** window opens.
- 3. Choose the desired option buttons and click the **OK** button.
 - The video title's streams are adjusted.
- 8. Enable the check boxes for the audio tracks that you want to copy on the **Audio** tab. Accordingly, disable the check boxes for the audio tracks that you don't want to copy.
- 9. Enable the check boxes for the subtitle tracks that you want to copy on the **Subtitle** tab. Accordingly, disable the check boxes for the subtitle tracks that you don't want to copy.
- 10. Click the **Next** button.
 - The **Burn Settings** screen appears.
- 11. Make the required settings for the burn process.
- 12. Click the **Burn** button.
 - The recoding and burn process is started and the **Recording and Burning** screen is displayed. You can track the process here.
- 13. If you have chosen the the disc drive of your computer as the target of the compilation, you will be prompted to insert an empty writable disc in the drive.
 - The burn process is complete when the relevant message appears in the information window.
 - You have recoded the main movie of a DVD. Clicking the **Next** button displays the **What do you want to do now?** screen. You can select further options here or exit Nero Recode.

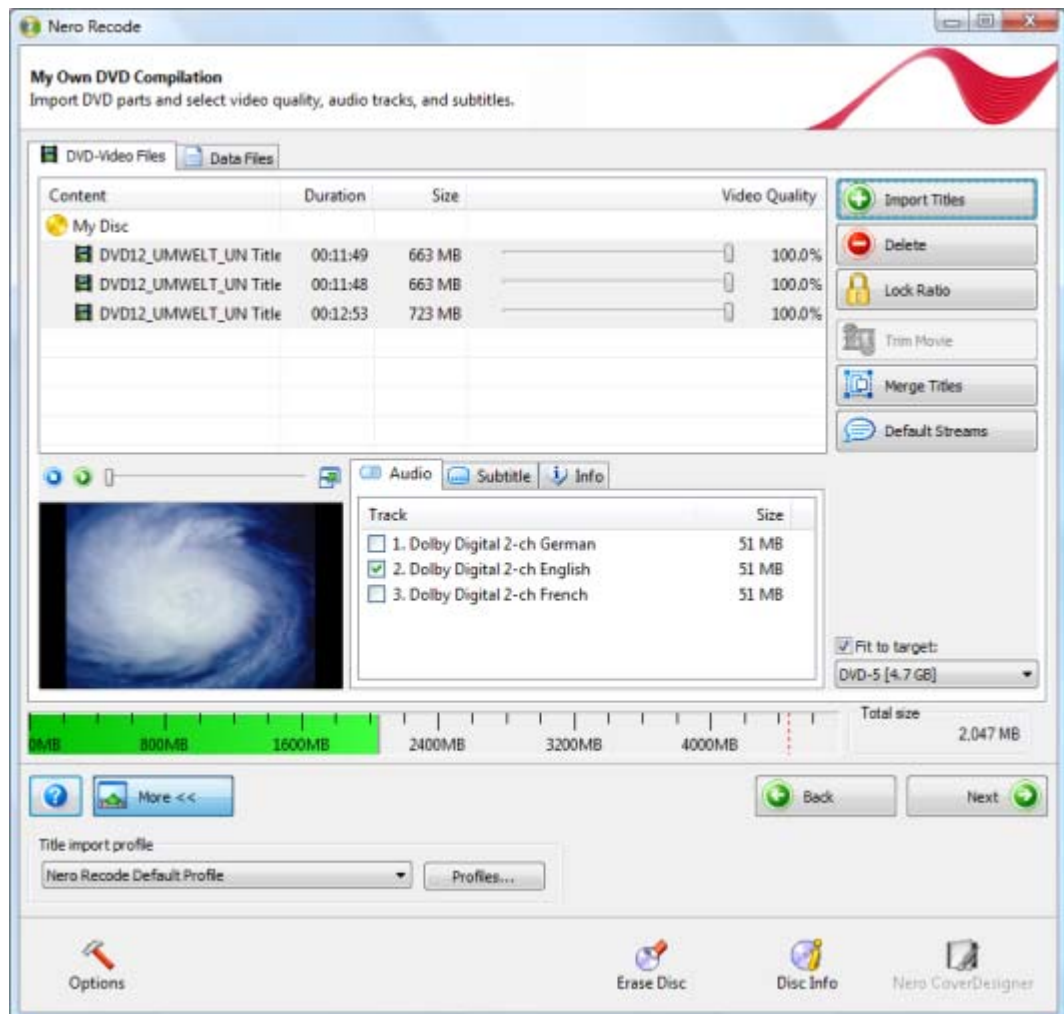
See also:

- 📖 [Setting Options for Recoding a Main Movie to DVD→ 30](#)
- 📖 [Trim Movie window→ 31](#)
- 📖 [Default Streams window→ 33](#)
- 📖 [Import screen→ 15](#)
- 📖 [Screen Burn Settings→ 20](#)
- 📖 [Recoding and Burning screen→ 23](#)

6 Compiling a DVD

6.1 Setting Options for Compiling a DVD

In addition to the basic settings that are always displayed on the screen for importing files, you can configure certain other settings with the **Compile a DVD** task.



My Own DVD Compilation Screen

The following buttons are available:

Erase

Deletes imported video titles from your compilation.
This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.

Lock Ratio	Locks the automatic change of recoding quality for a DVD-Video title. It is still possible to make manual changes to the quality settings by moving the slider. It could be a good idea to lock individual video titles if you want to improve the quality of other content (and therefore, the quality of the remaining content is lowered proportionately). A locked title is protected from the proportional adjustment in this case. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.
Unlock Ratio	Unlocks automatic recoding quality changes for a video title. This button is only enabled if at least one DVD video title has been locked in the Content area and selected there.
Trim Movie	Opens the Trim Movie window, where the selected video title can be trimmed. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.
Merge Titles	Merges selected video titles and pastes them to a common folder, Merged Titles. You can rename the folder according to your own preferences. This button is enabled only if at least two DVD video title's have been imported into the Content area and selected there.
Split	Splits merged video titles. This button is enabled only if at least two DVD video titles have been merged into one.
Default Streams	Opens the window Default Streams in which the streams for audio and subtitles can be selected. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.

See also:

-  [Compiling a DVD→ 38](#)
-  [Trim Movie window→ 31](#)
-  [Default Streams window→ 33](#)
-  [Import screen→ 15](#)

6.2 Compiling a DVD

You can use Nero Recode to compile a DVD of your own with parts from a DVD and data files.



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To compile a DVD, proceed as follows:

1. Choose the **Compile a DVD** task from the **Nero Recode** main window.
→ The **My Own DVD Compilation** screen is displayed.
2. Insert the DVD you want to recode in the disc drive on your PC.



Keep in mind that the **Fit to target** check box is enabled so that the content of the source DVD can be recoded during the subsequent process in such a way that it fits the selected target format.

If the check box is disabled, the DVD-Video will be imported in its original size. In this case, it is possible that the data volume will be so large that you will only be able to store it on a double-layer DVD or on the hard drive.
3. Select the required import profile in the **Title import profile** area.
4. Click the **Import Titles** button.
→ The **Import Titles** window opens.
5. Select the video titles that you want to recode and click the **Add titles** button.
→ The selected video titles are imported and shown on the Content area. If the source files are larger than the target media, you can also see how the files are recoded according to the selected profile here.
Underneath, the capacity bar shows how much disk space is taken up by the imported files on the disc graphically.
6. If you want to delete a single video title:
 1. Select the required video title.
 2. Click the **Erase** button.
→ The video title is removed from the compilation.
7. If you want to lock an individual video title to protect it from loss of quality during recoding:
 1. Select the required video title.
 2. Click the **Lock Ratio** button.
→ The video title is locked.
8. If you want to unlock a locked video title in order to adjust the quality proportionally to the quality of the other titles while recoding:

1. Select the required video title.
2. Click the **Unlock Ratio** button.
- The video title is unlocked.



In order to adjust the quality of a desired video title individually, you can move the slider in the **Video Quality** column under the Content area. The quality of the remaining DVD content is lowered proportionally to the quality improvement of an individual piece of content.

The sliders in the **Video Quality** area are enabled only when the **Fit to target** check box is deactivated.

9. If you want to trim an individual video title:
 1. Select the required video title.
 2. Click the **Trim Movie** button.
 - The **Trim Movie** window opens.
 3. Choose the first and last frames and click the **OK** button.
 - The video title is trimmed.
10. If you want to merge several video titles:
 1. Select at least two video titles.
 2. Click the **Merge Titles** button.
 - The video titles are compiled in a newly created folder, **Merged Titles**.



Video titles can only be merged if they all have the same audio track.

11. If you wish to separate merged video titles:
 1. Select the **Merged Titles** folder.
 2. Click the **Split Titles** button.
 - The video titles are shown separately again; the **Merged Titles** folder is deleted.
12. If you wish to configure the default streams:
 1. Select the required video title.
 2. Click the **Default streams** button.
 - The **Default streams** window opens.
 3. Choose the desired option buttons and click the **OK** button.
 - The video title's streams are adjusted.
13. Enable the check boxes for the audio tracks that you want to copy on the **Audio** tab. Accordingly, disable the check boxes for the audio tracks that you don't want to copy.
14. Enable the check boxes for the subtitle tracks that you want to copy on the **Subtitle** tab. Accordingly, disable the check boxes for the subtitle tracks that you don't want to copy.
15. Click the **Next** button.
- The **Burn Settings** screen appears.

16. Make the required settings for the burn process.
17. Click the **Burn** button.
 - ➔ The recoding and burn process is started and the **Recording and Burning** screen is displayed. You can track the process here.
18. If you have chosen the the disc drive of your computer as the target of the compilation, you will be prompted to insert an empty writable disc in the drive.
 - ➔ The burn process is complete when the relevant message appears in the information window.
 - ➔ You have compiled a DVD.
Clicking the **Next** button displays the **What do you want to do now?** screen. You can select further options or exit Nero Recode here.

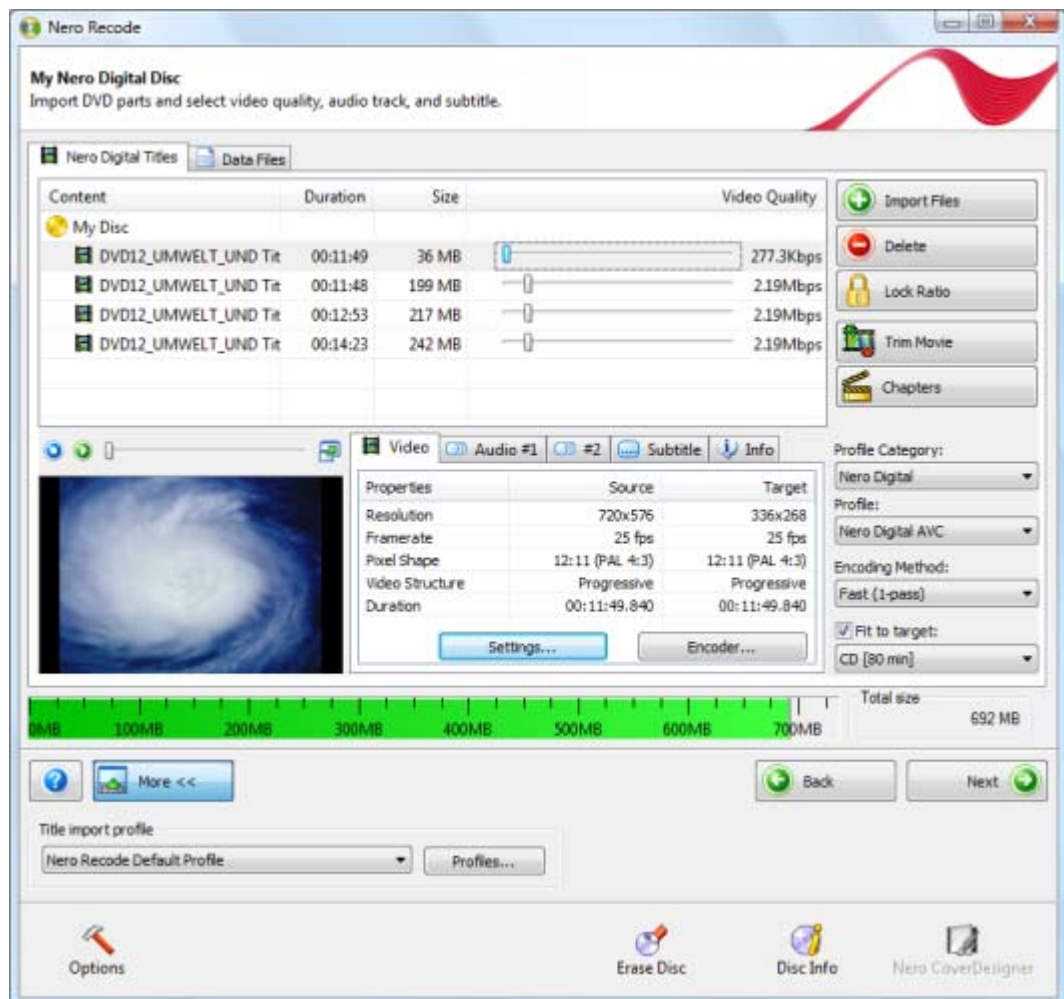
See also:

- 📖 [Setting Options for Compiling a DVD→ 36](#)
- 📖 [Trim Movie window→ 31](#)
- 📖 [Default Streams window→ 33](#)
- 📖 [Import screen→ 15](#)
- 📖 [Screen Burn Settings→ 20](#)
- 📖 [Recoding and Burning screen→ 23](#)

7 Recoding a DVD to Nero Digital

7.1 Setting Options for Recoding a DVD to Nero Digital

In addition to the basic settings that are always displayed on the screen for importing files, you can configure certain other options with the **Recode DVDs and Videos to Nero Digital** task.



My Nero Digital Disc Screen

The following buttons are available:

Erase	Deletes imported video titles from your compilation. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.
--------------	---

Lock Ratio	Locks the automatic change of recoding quality for a DVD-Video title. It is still possible to make manual changes to the quality settings by moving the slider. It could be a good idea to lock individual video titles if you want to improve the quality of other content (and therefore, the quality of the remaining content is lowered proportionately). A locked title is protected from the proportional adjustment in this case. This button is only enabled if at least one DVD has been imported into the Content area and selected there.
Unlock Ratio	Unlocks automatic recoding quality changes for a video title. This button is only enabled if at least one DVD video title has been locked in the Content area and selected there.
Trim Movie	Opens the Trim Movie window, where the selected video title can be trimmed. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.
Chapter	Opens the window Chapter where chapter markers can be set. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.

The following drop-down menus are available:

Profile category	Changes the Nero Digital™ category. This setting refers to the respective target media for which encoding takes place. The result has different sizes depending on the selection; the entries in the Profile drop-down menu are adjusted accordingly.
Profile	Changes the Nero Digital profile. The setting relates to the target medium for which encoding is being carried out.
Encoding Method	Selects the method to be used to encode the <u>MPEG-4</u> file. If you select Fast (1-pass), the movie only undergoes one conversion pass. This method requires less time but has lower quality than encoding in two steps. The movie is analyzed and converted with the available bit rate simultaneously. If you select High quality (2-pass), the movie undergoes several conversion passes. The quality is better, but the process takes longer. The first pass analyzes the movie and creates a temporary file (*.log). The second pass converts the file. During this process, the bit rate data that was stored in the temporary files is used.

The **Video** tab shows the video title's properties. The following information is available:

Column Properties	Shows the video properties stored on the DVD, e.g. resolution, frame rate, pixel format, video structure, and duration.
--------------------------	--

Column Source	Shows the original size.
Column Target	Shows the target sizes depending on the selected Nero Digital profile.
Button Settings	Opens the Nero Digital Video Settings window, where you can define how the video should be processed.
Button Encoder	Opens the Nero Digital Video Properties window. You can configure the settings for the <u>AVC</u> encoding of your data here.

The **Audio** tab displays the properties of an audio track. If there are two audio tracks available for the target video, an additional tab is displayed accordingly. The following setting options are available:

Drop-down menu Source	Used to choose the audio track desired for the video file.
Drop-down menu Codec	Used to choose the desired audio codec.
Display Format	Shows the target data of the audio track, depending on the selected codec.
Button Settings	Opens the Nero Digital Audio Properties window. You can define the settings for the audio encoder here. Only available if you have selected the Nero Digital™ audio codec (<u>AAC</u>).

The **Subtitle** tab displays the available subtitle tracks. The following selection menus are available:

Main subtitle track:	Used to select a desired subtitle track for the video file. You can also choose not to use subtitles (None) or to create or import your own subtitle track. If you select the Create new subtitle entry, the Nero Digital Subtitle Settings window is opened.
Secondary subtitle track:	Chooses a secondary subtitle track in addition to the main one. You can choose not to select a secondary subtitle track (None) or to create or import your own subtitle track. If you select the Create new subtitle entry, the Nero Digital Subtitle Settings window is opened.



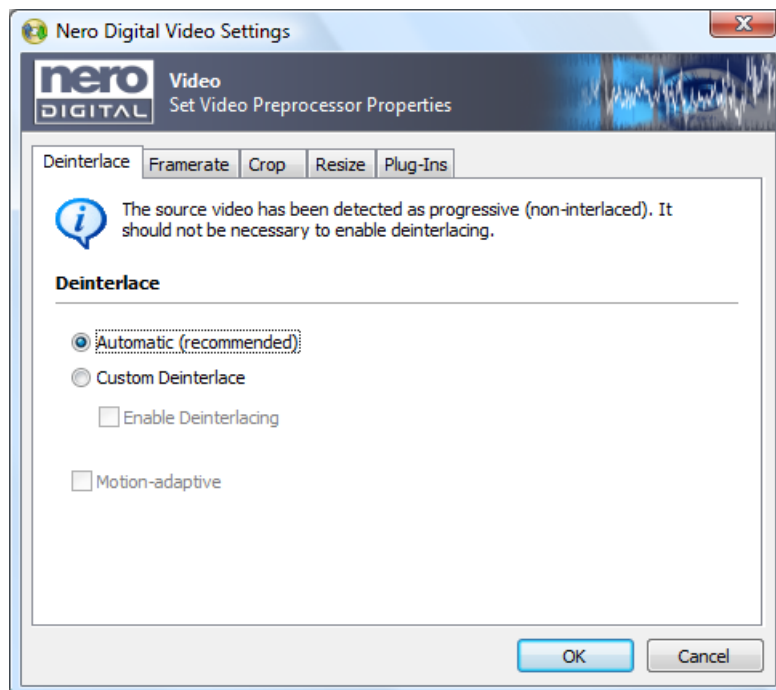
You can only insert our own subtitle track if you have selected the **Nero Digital** or **AVC** profile category and, accordingly, one of the following profiles for encoding: **Standard**, **Cinema**, or **HDTV**.

See also:

- [Nero Digital Video Settings→ 44](#)
- [Encoder settings→ 48](#)
- [Nero Digital Audio Settings→ 52](#)
- [Nero Digital™ Subtitle Settings→ 52](#)
- [Chapter window→ 55](#)
- [Recoding DVD's and videos to Nero Digital→ 56](#)
- [Trim Movie window→ 31](#)
- [Import screen→ 15](#)

7.2 Nero Digital Video Settings

The **Deinterlace**, **Framerate**, **Crop**, **Resize**, and **Plug-Ins** tabs are available on the **Nero Digital Video Settings** window. You can define how video should be processed here. To open this window, click the **Settings** button on the **Video** tab on the screen for importing files.



Nero Digital Video Settings window

See also:

-  [Deinterlace tab→ 45](#)
-  [Framerate Tab→ 45](#)
-  [Crop tab→ 46](#)
-  [Resolution tab→ 47](#)
-  [Plug-ins tab→ 47](#)
-  [Setting Options for Recoding a DVD to Nero Digital→ 41](#)

7.2.1 Deinterlace tab

The following setting options are available on the **Deinterlace** tab:

Option button Automatic (recommended)	Automatically selects whether or not the video title should be encoded with <u>deinterlace</u> .
Option button Custom Deinterlace	Enables the Enable deinterlacing check box.
Check box Enable Deinterlacing	Enabled deinterlacing for the current video title and displays the Motion-adaptive check box. This check box is only available if the Custom Deinterlace option button has been selected.
Check box Motion-adaptive	If the check box is enabled, improved video quality can be achieved with a motion-adaptive conversion. Even fast motion sequences are reproduced in an extremely sharp manner with full detail accuracy. The burn process is slower, however.

See also:

-  [Nero Digital Video Settings→ 44](#)

7.2.2 Framerate Tab

You can select the target frame rate for your Nero Digital™ file on the **Framerate** tab. The frame rate indicates the number of frames shown per second. The Nero Recode default settings use the frame rate of the source file, provided that the selected Nero Digital™ profile allows it.

The following setting options are available in the **Framerate** area:

Option button Automatic (recommended)	Automatically selects how many frames are shown per second.
Option button User-defined rate	Enables the Target rate drop-down menu.

Drop-down menu Target rate	Selects how many frames per minute to show. This drop-down menu is only available if you selected the User-defined rate option button.
Check box Motion-adaptive	If the check box is enabled, improved video quality can be achieved with a motion-adaptive conversion. Even fast motion sequences are reproduced in an extremely sharp manner with full detail accuracy. The burn process is slower, however.

See also:

 [Nero Digital Video Settings→ 44](#)

7.2.3 Crop tab

If your DVD-Video features black picture bars on the sides, you can crop them with the **Crop** tab. This decreases the size of the video and as a result improves its quality. The Nero Re-code default settings detect the bars and crop them automatically.

The following setting options are available in the **Crop** area:

Option button Automatic (recommended)	Detects black picture bars and crops them automatically.
Option button Custom Crop	Enables the four text boxes for the manual cropping (top, bottom, right, left) and the Adjust button.
Button Adjust	Opens a dialog box and displays a frame from the video. You can use the mouse to define the four cropping areas (top, bottom, left, right) by hand. The button is only enabled if the Custom Crop option button is selected.
Option button Disable	Allows the video to be converted without cropping the borders.

See also:

 [Nero Digital Video Settings→ 44](#)

7.2.4 Resolution tab

Under the default settings, the selection of a profile for converting the DVD video title to the MPEG-4 format defines the size of the picture to be created. You can adjust these picture sizes individually under the **Resize** tab.

The following setting options are available in the **Custom resize** area:

Option button Automatic (recommended)	Automatically adjusts the frame size to the selected Nero Digital profile so that the frame size generated matches the output medium.
Option button Custom Resize	Activates the two text boxes for the page format (width and height). The values to be entered must be multiples of 16 and must be in the range 16 to 720 pixels for width and 16 to 576 pixels for height.
Option button Disable	Allows the video to be converted without changing the frame size.
Check box Square Pixels / Letterboxing	If this check box is enabled, a Nero Digital™ file that consists of square pixels and uses the <u>Letterbox</u> method is created. This increases compatibility with some players. This can, however, result in black bars inside the video file. This option is only available if the Custom resize option button has been selected.
Drop-down menu Resizing method	Selects the desired resizing method, e.g. <u>bilinear</u> , <u>bicubic</u> , <u>Lanczos</u> and superresolution.

See also:

 [Nero Digital Video Settings → 44](#)

7.2.5 Plug-ins tab

You can select and configure plug-ins that have already been installed for use in Nero Recode under the **Plug-Ins** tab.

The following setting options are available:

Selection list Installed plug-ins	Displays the installed plug-ins.
Selection list Selected plug-ins	Displays the selected plug-ins.
Button Add	Adds installed plug-ins to the Selected Plug-ins selection list.

Button Remove	Removes plug-ins from the Selected plug-ins list box.
Button Upward / downward	Sorts the items in the Selected plug-ins selection list.
Button Options	Opens the Plug-ins Editor window, where you can define settings for the respective plug-ins. The setting options depend on the selected plug-in. You can track your adjustments in the preview area on the right side of the window. Clicking on the Reset button undoes all changes.



The Nero Recode default settings include the **Color Correction** and **Denoise** plug-ins.
You can adjust brightness, contrast and saturation of your video files with sliders in the **Color Correction** plug-in.
Noise interference can be removed from video files with the sliders in the **Denoise** plug-in.

See also:

[Nero Digital Video Settings](#) → 44

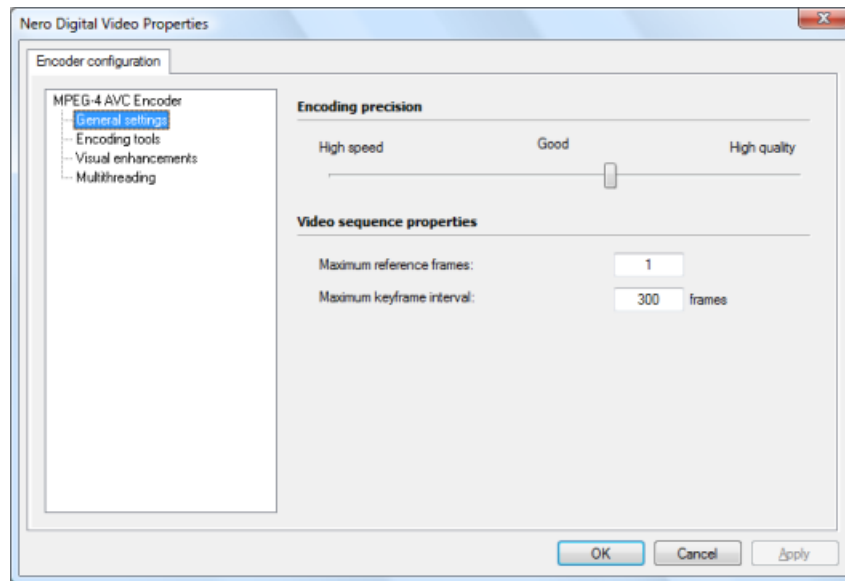
7.3 Encoder settings

You can configure settings for **AVC** encoding of your data, save the settings you have configured, or load saved setting configurations in the **Nero Digital Video Properties** window, under the **Encoder configuration** tab. The different setting areas are selected with the directory tree on the left side of the window.

You can open the window by clicking the **Encoder** button on the **Video** tab in the screen for importing files.

The following setting options are available under the **MPEG-4 AVC Encoder** entry:

Button Load settings	Loads existing encoder settings. A window opens.
Button Save Settings	Saves newly created encoder settings.



Nero Digital Video properties window

See also:

-  [General settings→ 49](#)
-  [Encoding Tools→ 50](#)
-  [Visual Enhancements→ 51](#)
-  [Multithreading→ 51](#)
-  [Setting Options for Recoding a DVD to Nero Digital→ 41](#)

7.3.1 General settings

You can configure settings for **Decision quality** and **Properties for video sequence** under the **General settings** entry.

The slider in the **Decision quality** area specifies how good the quality of the output file should be in relation to the time used for encoding. **High quality** provides the best quality, but the longest encoding time. **High speed** takes up the least encoding time and provides the worst available quality. It is advisable to use a value in the middle within the **Best** range.

The following setting options are available in the **Properties for video sequences** area:

Input field Maximum reference frames	Specifies how many frames from which a <u>P-frame</u> or <u>B-frame</u> may query information.
Input field Maximum keyframe interval	Defines the range for the size of the GOP.

See also:

 [Encoder settings→ 48](#)

7.3.2 Encoding Tools

You can define settings for the encoding process under **Encoding tools**.

The following check box is available in the **Baseline Profile** area:

Deblocking	If this check box is enabled, a soft-focus effect is applied to the sharp edges of the <u>macroblocks</u> . You can configure the intensity by using the Deblocking strength slider.
-------------------	---

The following setting options are available in the **Main profile** area:

Check box Bidirectional prediction	If this check box is enabled, encoding is carried out with the help of <u>B-VOP's</u> .
Input field Maximum consecutive B-frames	Specifies the maximum number of B-frames that can be used in a <u>GOP</u> . This input field is enabled only when the Bidirectional prediction check box is enabled.
Check box CABAC	If this check box is enabled, the <u>Context Adaptive Binary Arithmetic Coding</u> encoding method is used.
Check box Weighted prediction	If this check box is enabled, reference frames can be re-weighted during motion predictions. This increases the encoding efficiency especially, during cross fading.
Check box Interlaced encoding	If this check box is enabled, interlaced-encoded output material can be saved as interlaced material again. Only possible if the source video file is interlaced.

The following check box is available in the **High profile** area:

8 x 8 Transform	If this check box is enabled, the default 4x4 transform used by the encoder is changed to an 8x8 transform. This allows for better compression with high-definition resolutions. This setting depends on the chosen profile.
------------------------	---

See also:

 [Encoder settings→ 48](#)

7.3.3 Visual Enhancements

The settings in the **Visual Quality Level** entry use human perception patterns to achieve better overall quality.

This means, for example, that the quality is better in the middle of the picture than at the outer edges because the eyes tend to focus on the middle and do not notice slight blurring at the edge. Because quality is "saved" at the edge, you can either improve overall quality or achieve greater compression.

This means that you can achieve greater compression without any appreciable loss of quality.

The following check boxes are available in the **Psychovisual enhancement** area:

<u>Focal plane</u>	If this check box is enabled, human perception is taken into account in order to achieve better compression for individual pictures at certain spots in the video.
<u>Macroblock level</u>	If this check box is enabled, human perception is taken into account in order to achieve better compression for macroblocks in certain areas in the picture.

See also:

 [Encoder settings→ 48](#)

7.3.4 Multithreading

You can configure multithreading settings under the **Multithreading** entry.



Nero Recode supports multi-core processors. If you have one of these, you can distribute the encoding process over the desired number of threads.

The following drop-down menu is available:

<u>Number of threads/slices</u>	Defines whether the encoding process should be performed by multiple threads (<u>Multithreading</u>). The number of processor cores used corresponds to the number of threads you have selected. This ensures optimal use of a multi-core processor system. This ensures optimal use of a multi-core processor system.
--	--

See also:

 [Encoder settings→ 48](#)

7.4 Nero Digital Audio Settings

You can define settings for the audio encoder in the **Nero Digital Audio Properties** window.

You can open the window by clicking the **Settings** button on the **Audio** tab in the screen for importing files.

The following setting options are available in the **Audio Settings** area:

Option button Automatic (recommended)	Automatically adapts the audio profiles to the Nero Digital profile, so that the quality of the audio track best corresponds to the output medium.
Option button User-defined	Activates the combo boxes Audio channels , Mode , Scan rate and Bit rate .
Drop-down menu Channels	Selects the audio channels. Depending on the selected Nero Digital™ profile, Stereo , Mono , and 5.1 are available for selection.
Drop-down menu fashion	Selects the mode with which the audio channels are processed. Depending on the Nero Digital profile selected, Low complexity and High efficiency are available. The selection affects the scan and bit rate.
Drop-down menu Sample Rate	Selects the scan rate. The scan rate is the frequency that a signal is scanned per time interval.
Drop-down menu Bit rate	Selects the <u>bit rate</u> . The bit rate is the quantity of data transmitted within a time unit.

The following drop-down menu is available in the **Audio volume** area:

Drop-down menu Volume	Sets the required volume.
---------------------------------	---------------------------

See also:

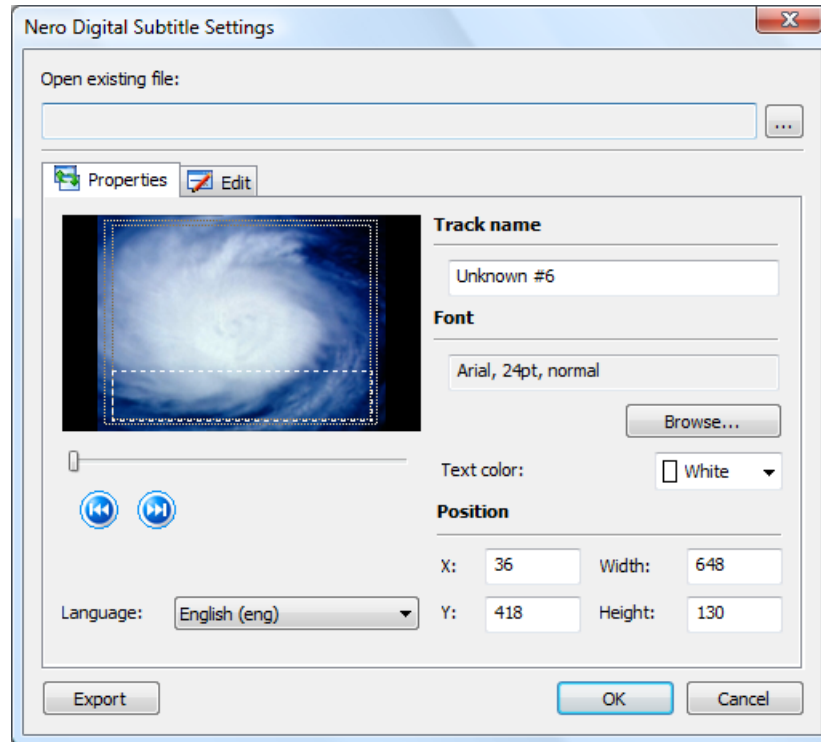
 [Setting Options for Recoding a DVD to Nero Digital→ 41](#)

7.5 Nero Digital™ Subtitle Settings

The **Nero Digital Subtitle Settings** window allows you to create your own subtitle track. You can also import a subtitle track that is already available. In order to be able to import the track, the file must be saved in one of the following formats: SUB, SRT, SMI, SSA, ASS, PSB.



You can only insert our own subtitle track if you have selected the **Nero Digital** or **AVC** profile category and, accordingly, one of the following profiles for encoding: **Standard**, **Cinema**, or **HDTV**.



Nero Digital Subtitle Settings Window

The following setting options are available:

Button Open existing file	Opens a window. You can select subtitle files that are already available in this window.
Button Exporting	The Save as dialog appears. You can save a subtitle file that you created in a folder of your choice.

The following setting options are available on the **Properties** tab:

Input field Track name	Allocates a name to a subtitle track you have created.
Area Font	Displays the settings from the Font window.
Button Browse	Opens the Font window. Make the settings for the font and the size of your subtitle track here.

Drop-down menu Text Color	Specifies the color of your subtitle track.
Area Position	Specifies the coordinates of the text box where the subtitle track is displayed.
Drop-down menu Language	Specifies the subtitle track language to be declared.
Button 	Goes to the end of the current subtitle line or the beginning of the next. Only available if subtitle lines have already been created.
Button 	Goes to the beginning of the current subtitle line or the end of the next. Only available if subtitle lines have already been created.
Slider 	Selects the desired frames.

The **Edit** tab shows the individual subtitle lines. The following information on the individual lines is available:

Column Start timecode	Shows the start time for the subtitle line. You can adjust the start time according to your preferences. Click inside the column in order to edit the duration of an interval.
Column End timecode	Shows how long the subtitle lines are displayed. You can adjust the ending time according to your preferences. Click inside the column in order to edit the duration of an interval.
Column Text	Displays the subtitle text for an interval. You can enter or edit the desired text by using the Edit button.

The following buttons are available on the **Edit** tab:

Button Append	Adds a new line to the end of the frame. In the standard setting the interval between the start and end of the time code is 4 seconds.
Button Edit	Opens the Edit Subtitle Line window. You can enter or edit the desired text for a subtitle line in this window.
Button Erase	Deletes a previously selected subtitle line.

See also:

 [Subtitle formats→ 55](#)

 [Setting Options for Recoding a DVD to Nero Digital→ 41](#)

7.5.1 Subtitle formats

The individual subtitles in files in **SUB** (preSub) format consist of a single line. The lines are separated from each other by paragraph marks and must have the following form:

- **{0}{50}Sample subtitle text**

The first and last frame in which the text should be displayed are shown between curly frames. The subtitle text is shown after them, without a space between.

The **SRT** (SubRip) subtitle format consists of 3-line blocks. They are separated from each other by empty breaks and must have the following format:

- **1**

Continuous number that begins with one and is increased by one for each block.

- **00:01:36,480 --> 00:01:38,360**

The first time indication specifies in hours, minutes, seconds, and milliseconds when the text begins to be displayed.

An arrow that consists of two hyphens and a angle bracket follows, separated by a space. After another space, the time indication that specifies when the text should cease to be displayed follows.

- **Sample subtitle text**

Contains the subtitle's text.

The **SMI** (SAMI) subtitle format is based on HTML syntax. Milliseconds are used as the basis for time values. This format is a standard developed by Microsoft and is intended mainly for the use of subtitles in videos. SMI can only be played back with Windows Media® Player and other Microsoft products.

The subtitle format **SSA** (Sub Station Alpha) has the widest range of functionality. The syntax consists of sections and the included code lines. The sections begin with a bracket (e.g. "[Script Info]") followed by predefined code lines (e.g. Title, Original timing), containing the respective information. This allows the use of colors, fonts, font sizes and similar.

The subtitle format **ASS** (Advanced Sub Station Alpha) is an enhanced version of SSA and offers all the features of SSA. It also allows subtitles to be graphically edited, e.g. for Karaoke.

The **PSB** (MPsub) subtitle format was developed for the Mplayer, a movie player for Linux. Its main feature is the use of dynamic time dependencies. The code consists of numbers and of the subtitle's text. The first number in the code represents the waiting time, in seconds, for the next subtitle to be displayed after the last subtitle has elapsed. The second number shows the current subtitle for the time, in seconds, that it represents.

See also:

 [Nero Digital™ Subtitle Settings→ 52](#)

7.6 Chapter window

In the **Chapter** window, you can add your own chapter markers to those already on the DVD. Chapter markers subdivide the content of a DVD. It is possible to access them, as chapters, with the DVD player.

The following setting options are available:

Display panel Current frame	Shows the current playing time of the video displayed in the preview window.
Display area Chapter	Shows the chapter markers already set and the starting time for every chapter marker.
Button Add	Adds a chapter marker at the selected point in the video.
Button Erase	Deletes the selected chapter marker.
Slider 	Jumps to the desired frame.
Button 	Starts playback.
Button 	Pauses playback.
Button 	Skips 6 seconds back.
Button 	Skips a few frames back.
Button 	Skips forwards a few frames.
Button 	Skips forwards 6 frames.

See also:

 [Setting Options for Recoding a DVD to Nero Digital→ 41](#)

 [Setting Options for Recoding a Main Movie to Nero Digital→ 60](#)

7.7 Recoding DVD's and videos to Nero Digital

You can use Nero Recode to encode all video formats supported by Nero into Nero Digital™ files. The Nero Digital™ codec is MPEG-4-compliant. These files can be played in Nero ShowTime and in other common programs.



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Unless you possess the copyright yourself, or at least have the permission of the copyright holder, the unauthorized reproduction of discs may be a breach of national or international law and may lead to severe penalties!

To recode a DVD or video to Nero Digital, proceed as follows:

1. Select the **Recode DVDs and Videos to Nero Digital** task in the **Nero Recode** start screen.
→ The **My Nero Digital Disc** screen appears.
2. Insert the DVD you want to recode in the disc drive on your PC.



Keep in mind that the **Fit to target** check box is enabled so that the content of the source DVD can be recoded during the subsequent process in such a way that it fits the selected target format.

If the check box is disabled, the DVD-Video will be imported in its original size. In this case, it is possible that the data volume will be so large that you will only be able to store it on a double-layer DVD or on the hard drive.

3. Select the required import profile in the **Title import profile** area.
4. Click the **Import Files** button.
→ The **Import Titles** window opens.
5. Select the video titles that you want to recode and click the **Add titles** button.
→ The selected video files are imported and displayed in the Content area.
If the source files are larger than the target media, you can also see how the files are recoded according to the selected profile here.
Underneath, the capacity bar shows how much disk space is taken up by the imported files on the disc graphically.
6. If you want to delete a single video title:
 1. Select the required video title.
 2. Click the **Erase** button.
→ The video title is removed from the compilation.
7. If you want to lock an individual video title to protect it from loss of quality during recoding:
 1. Select the required video title.
 2. Click the **Lock Ratio** button.
→ The video title is locked.
8. If you want to unlock a locked video title in order to adjust the quality proportionally to the quality of the other titles while recoding:
 1. Select the required video title.
 2. Click the **Unlock Ratio** button.
→ The video title is unlocked.



In order to adjust the quality of a desired video title individually, you can move the slider in the **Video Quality** column under the Content area. The quality of the remaining DVD content is lowered proportionally to the quality improvement of an individual piece of content.

The sliders in the **Video Quality** area are enabled only when the **Fit to target** check box is deactivated.

9. If you want to trim an individual video title:
 1. Select the required video title.
 2. Click the **Trim Movie** button.
 - The **Trim Movie** window opens.
 3. Choose the first and last frames and click the **OK** button.
 - The video title is trimmed.
10. If you want to add additional chapters to individual video titles:
 1. Select the required video title.
 2. Click the **Chapters** button.
 - The **Chapter** window opens.
 3. Add the desired chapter markers and click the **OK** button.
 - The chapters are added.
11. Choose the desired Nero Digital™ category in the **Profile Category** drop-down menu.
12. Select the required Nero Digital profile in the **Profile** drop-down menu.
13. Select the desired encoding method from the **Encoding Method** drop-down menu.
14. If you want to change the video settings for a video title, click the **Settings** button under the **Video** tab and configure the settings according to your preferences.
15. If you wish to modify the encoder settings of a video title, click the **Encoder** button on the **Video** tab and make the required settings.
16. Select the audio tracks of a video title that you want to copy on the **Audio #1** and **#2** tabs.
17. If you want to change other audio settings for an audio track, click the **Settings** button under the corresponding **Audio** tab and configure the settings according to your preferences.
18. Select the subtitle tracks (of a video title) that you want to copy under the **Subtitle** tab.
19. Click the **Next** button to define the burn settings.
 - The **Burn Settings** screen appears.
20. Make the required settings for the burn process.
21. Click the **Burn** button.
 - The recoding and burn process is started and the **Recording and Burning** screen is displayed. You can track the process here.
22. If you have chosen the the disc drive of your computer as the target of the compilation, you will be prompted to insert an empty writable disc in the drive.

- ➔ The burn process is complete when the relevant message appears in the information window.
- ➔ You have recoded a DVD or a video into Nero Digital™.
Clicking the **Next** button displays the **What do you want to do now?** screen. You can select further options or exit Nero Recode here.

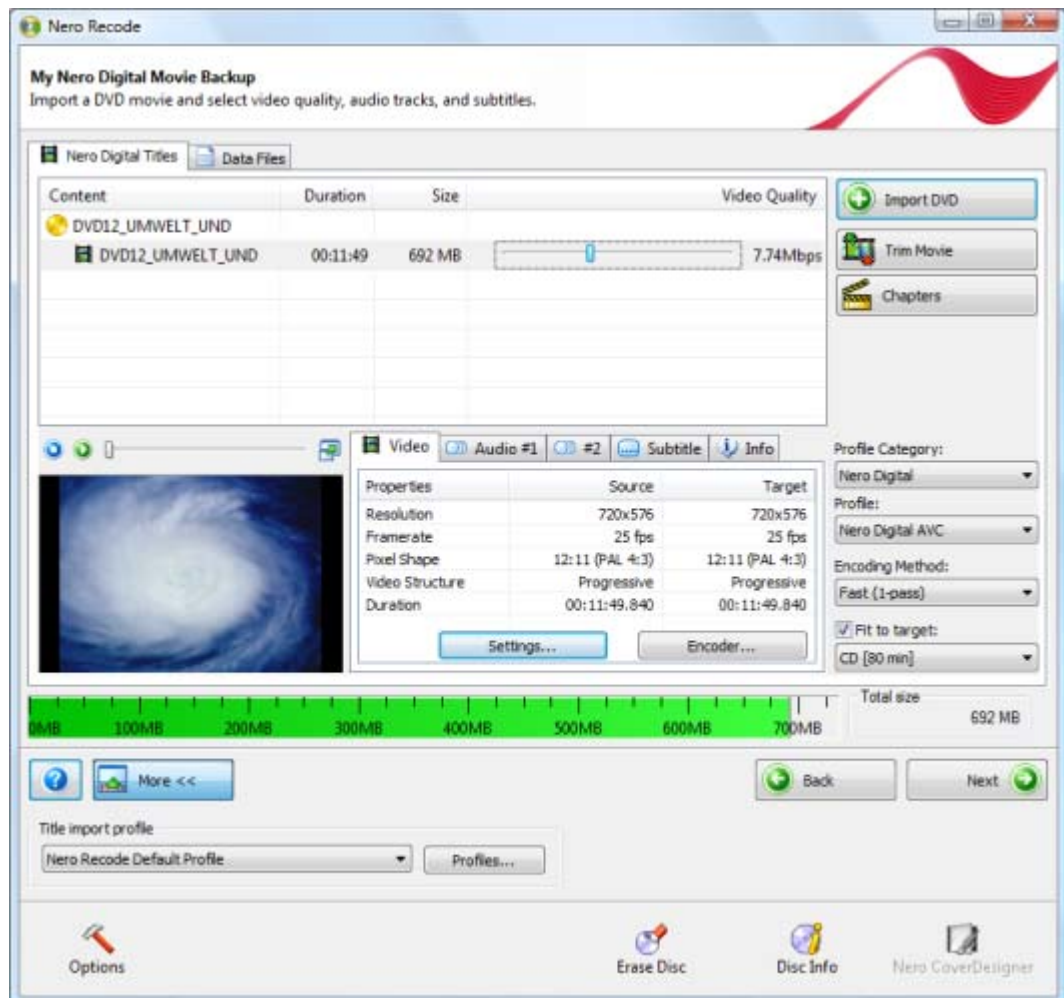
See also:

- 📖 [Setting Options for Recoding a DVD to Nero Digital](#)→ 41
- 📖 [Nero Digital Video Settings](#)→ 44
- 📖 [Encoder settings](#)→ 48
- 📖 [Nero Digital Audio Settings](#)→ 52
- 📖 [Nero Digital™ Subtitle Settings](#)→ 52
- 📖 [Chapter window](#)→ 55
- 📖 [Trim Movie window](#)→ 31
- 📖 [Import screen](#)→ 15
- 📖 [Screen Burn Settings](#)→ 20
- 📖 [Recoding and Burning screen](#)→ 23

8 Recoding a Main Movie to Nero Digital

8.1 Setting Options for Recoding a Main Movie to Nero Digital

In addition to the basic settings that are always displayed on the screen for importing files, you can configure certain other settings with the **Recode Main Movie to Nero Digital** task.



Screen My Nero Digital Movie Backup

The following buttons are available:

Trim Movie

Opens the **Trim Movie** window, where the selected video title can be trimmed.

This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.

Chapter	Opens the window Chapter where chapter markers can be set. This button is only enabled if at least one DVD video title has been imported into the Content area and selected there.
----------------	---

The following drop-down menus are available:

Profile category	Changes the Nero Digital™ category. This setting refers to the respective target media for which encoding takes place. The result has different sizes depending on the selection; the entries in the Profile drop-down menu are adjusted accordingly.
Profile	Changes the Nero Digital profile. The setting relates to the target medium for which encoding is being carried out.
Encoding Method	Selects the method to be used to encode the <u>MPEG-4</u> file. If you select Fast (1-pass) , the movie only undergoes one conversion pass. This method requires less time but has lower quality than encoding in two steps. The movie is analyzed and converted with the available bit rate simultaneously. If you select High quality (2-pass) , the movie undergoes several conversion passes. The quality is better, but the process takes longer. The first pass analyzes the movie and creates a temporary file (*.log). The second pass converts the file. During this process, the bit rate data that was stored in the temporary files is used.

See also:

-  [Chapter window](#) → 55
-  [Recoding a main movie to Nero Digital™](#) → 61
-  [Import screen](#) → 15
-  [Trim Movie window](#) → 31

8.2 Recoding a main movie to Nero Digital™

You can use Nero Recode to encode the main movie of a DVD without additional extras into Nero Digital™. The Nero Digital™ codec is MPEG-4-compliant. These files can be played in Nero ShowTime and in other common programs.



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In order to recode the main movie of a DVD to Nero Digital™, proceed as follows:

1. Select the **Recode Main Movie to Nero Digital** task in the **Nero Recode** main window.
→ The **My Nero Digital Movie Backup** screen is displayed.

2. Insert the DVD you want to recode in the disc drive on your PC.



Keep in mind that the **Fit to target** check box is enabled so that the content of the source DVD can be recoded during the subsequent process in such a way that it fits the selected target format.

If the check box is disabled, the DVD-Video will be imported in its original size. In this case, it is possible that the data volume will be so large that you will only be able to store it on a double-layer DVD or on the hard drive.

3. Select the required import profile in the **Title import profile** area.
4. Click the **Import DVD** button.
 - The **Browse Folder** window is opened.
5. Select the drive or hard drive folder containing the DVD that you want to recode and click the **OK** button.
 - The DVD's main movie is imported and shown in the Content area. If the source DVD is larger than the target media, you can also see how the DVD is recoded according to the selected profile here.
Underneath, the capacity bar shows how much disk space is occupied by the imported files on the disc graphically.
6. If you want to trim an individual video title:
 1. Select the required video title.
 2. Click the **Trim Movie** button.
 - The **Trim Movie** window opens.
 3. Choose the first and last frames and click the **OK** button.
 - The video title is trimmed.
7. If you want to add additional chapters to individual video titles:
 1. Select the required video title.
 2. Click the **Chapters** button.
 - The **Chapter** window opens.
 3. Add the desired chapter markers and click the **OK** button.
 - The chapters are added.



In order to adjust the quality of a desired video title individually, you can move the slider in the **Video Quality** column under the Content area. The quality of the remaining DVD content is lowered proportionally to the quality improvement of an individual piece of content.

The sliders in the **Video Quality** area are enabled only when the **Fit to target** check box is deactivated.

8. Choose the desired Nero Digital™ category in the **Profile Category** drop-down menu.
9. Select the required Nero Digital profile in the **Profile** drop-down menu.
10. Select the desired encoding method from the **Encoding Method** drop-down menu.

11. If you want to change the video settings for a video title, click the **Settings** button under the **Video** tab and configure the settings according to your preferences.
12. If you want to change the encoder settings for a video title, click the **Encoder** button under the **Video** tab and configure the settings according to your preferences.
13. Select the audio tracks of a video title that you want to copy on the **Audio #1** and **#2** tabs.
14. If you want to change the audio settings for an audio track, click the **Settings** button under the **Audio** tab and configure the settings according to your preferences.
15. Select the subtitle tracks (of a video title) that you want to copy under the **Subtitle** tab.
16. Click the **Next** button to define the burn settings.
 - ➔ The **Burn Settings** screen appears.
17. Make the required settings for the burn process.
18. Click the **Burn** button.
 - ➔ The recoding and burn process is started and the **Recording and Burning** screen is displayed. You can track the process here.
19. If you have chosen the the disc drive of your computer as the target of the compilation, you will be prompted to insert an empty writable disc in the drive.
 - ➔ The burn process is complete when the relevant message appears in the information window.
 - ➔ You have recorded a DVD's main movie to Nero Digital™. Clicking the **Next** button displays the **What do you want to do now?** screen, where you can select other options or exit Nero Recode.

See also:

- 📖 [Setting Options for Recoding a Main Movie to Nero Digital](#) → 60
- 📖 [Trim Movie window](#) → 31
- 📖 [Chapter window](#) → 55
- 📖 [Import screen](#) → 15
- 📖 [Screen Burn Settings](#) → 20
- 📖 [Recoding and Burning screen](#) → 23

9 Technical Information

9.1 System requirements

Nero Recode is installed along with the Nero Suite. Its system requirements are the same. You can find more detailed information on the system requirements under www.nero.com.

- In addition, the following requirements apply:
- Optional: DVD-Video Plug-in for DVD-Video recordings and the "DVD-9 to DVD-5" function
- Multi-core processor (recommended)

9.2 Versions of Nero Recode

Nero Recode is also offered in versions different from the full version. These versions differ from the full version in the scope of their features, i.e. they cannot perform all the tasks described in this manual, and the user interface is adapted to the specific version. The following versions are available:

Nero Recode

- Full version

Nero Recode Essentials

The following features of the full version may not be included:

- PSP export function
- iPod export function

Nero Recode Essentials SE

Exclusive features:

- Recode an entire DVD to DVD
- Burn function (via Nero API)

Nero Recode Essentials CE

The following features of the full version are not included:

- Recode an entire DVD
- Recoding a main movie to DVD
- Change the structure of a DVD

10 Glossary

AAC

Advance Audio Coding is an audio compression method defined under the MPEG-4 standard. AAC has a higher compression ratio than other comparable formats (e.g. MP3) and achieves high audio quality starting at 64 kbit/s already. This encoding format is used, e.g. in online music stores and online radios.

AVC

Advanced Video Coding is a video compression standard. AVC was developed for maximum encoding efficiency and makes it possible to produce good quality video compression at low bit rates. It is one of the mandatory video compression methods for high-definition television transmissions and for mobile devices (e.g. cell phones, PDA's).

Bicubic interpolation

Bicubic interpolation is an image processing method. If an image is enlarged beyond its original size, not only are the four neighboring pixels analyzed to calculate the new resulting pixel, but other nearby pixels are analyzed as well. This way, the new pixel is interpolated based on eight neighboring pixels.

Bilinear Interpolation

Bilinear interpolation refers to an image processing method. If a picture is enlarged beyond its original size, the resulting new image pixels are calculated based on the average between the four neighboring pixels. The more a picture is enlarged with this method, the less sharp it becomes.

Bit rate

Bit rate refers to the amount of data (binary digits) that is transmitted within a time unit (generally 1 second), i.e. in bits/s. The higher the bit rate, the better the image quality.

Book Type

The book type defines the specification (e.g. DVD-, DVD+, DVD-ROM) of a DVD. In order to ensure correct playback, the DVD specifications are defined in books so that all media can be read correctly. The specifications are defined in the so-called Rainbow Books, which are distinguished by means of their color (e.g. Yellow Book).

CABAC

Context Adaptive Binary Arithmetic Coding refers to an encoding method for digital video files. CABAC is an integral part of the H.264/MPEG-4 AVC encoding standard. Instead of variable-length bit strings, a different arithmetic encoding method that makes it possible to reduce the bit rate between 10% and 20% (and therefore reduces space requirements) is used.

Deinterlace

The deinterlacing process converts interlaced video files into complete frames (progressive), since computer displays and modern televisions do not work with the deinterlaced system anymore, but rather with complete frames.

Encode

Encoding refers to creating a video in a defined video format, e.g. MPEG-2 or Nero Digital™ (MPEG-4) through data compression. A corresponding encoder is required for each video format.

GOP

A Group of Pictures refers to a group of consecutive individual pictures in the picture flow of a video file. Each movie or video flow consists of consecutive GOP's. The viewable individual pictures are generated from them.

Interlace

The interlacing process, which is used to display a TV picture in PAL standard, displays two half frames in succession. As the frame is generated, only the odd lines from the output device are displayed for the first half frame. When this is complete, the second half frame is generated from the even lines. The two frames are encoded separately. The relatively high refresh frequency means that the eye picks this up as a single frame.

Lanczos interpolation

Lanczos interpolation refers to an image enlargement method. The method was developed according to an algorithm created by Cornelius Lanczos. This interpolation method provides high quality and good sharpness levels. However, the actual visual resolution of the images is not increased.

Letterbox

Letterbox refers to an aspect ratio transferring method with which, e.g. a video file with 16:9 aspect ratio is adjusted for the 4:3 television aspect ratio. Black bars are placed above and below the picture.

Macroblock

A macroblock refers to a block consisting of 16x16 pixels, and constitutes the basic unit in the MPEG standard, on which motion encoding is based as well. A macroblock contains information regarding the brightness and color distribution of a video picture.

MPEG-2

The Moving Picture Experts Group defined this industry standard for video and audio codecs. There is little difference between MPEG-1 and MPEG-2: MPEG-2 is a broadcast standard and better for televisions that are interlaced. MPEG-2 is used as a video format for DVDs.

MPEG-4

The Moving Picture Experts Group defined this industry standard for video and audio codecs. MPEG-4 is the latest MPEG standard for video and audio. MPEG-4 combines several

functions from MPEG-1, MPEG-2 and other standards. Nero Digital™ Video and Nero Digital™ Audio are based on this standard.

Multithreading

Multithreading refers to a processor's capability of processing several tasks simultaneously. In the field of software, it also refers to the distribution of computing work for a certain task among several processors.

P-frame

P-frames (predicted frames) refer to predicted pictures in MPEG compression. They are based on predictions and guesses from previous intra-frames (I-frames) and P-frames. They only include the change information in comparison to the previous frame. Since P-frames feature a higher compression ratio than I-frames, the compressed data volume is smaller, since only the changes are saved in the frame.

Streaming

Streaming refers to the continuous transmission of data that can already be played during the transmission procedure. This means that it is not necessary to wait until a media file has been transmitted completely before it can be played back. A TV channel can be received and displayed at the same time without it first having to be saved to the hard drive.

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